ALLIANCE FOR BANGLADESH WORKER SAFETY

INITIAL FIRE SAFETY ASSESSMENT

Factory Name:	**AB Mart Fashionwear Ltd.**
Address:	**786 Kakil Sataish Boradawra 13/3 Purbopara Mudafa Tongi, Gazipur Tongi, Gazipur Dhaka Bangladesh**
Assessor:	**Bureau Veritas**
Date:	**22 Apr 2015**

Introduction to the Report

The following report contains a site profile and summary of non-conformities identified during an onsite assessment commissioned by the Alliance for Bangladesh Worker Safety (Alliance) and conducted by a third-party Qualified Assessment Firm (QAF). The assessment was conducted against the Alliance for Bangladesh Worker Safety Assessment Protocols (APs) and Fire Safety and Structural Integrity Standard, which is harmonized with the factory assessment guidelines developed by Bangladesh University of Engineering and Technology (BUET) for the Bangladesh National Tripartite Plan of Action (NTPA). The goal of the Alliance process is to provide clear and practical technical requirements by which Bangladeshi Ready Made Garment (RMG) Factories producing for Alliance members may be consistently and fairly evaluated for fire, structural, and electrical safety in a non-duplicative manner. Each assessment will prompt action plans that will be used by RMG factories to systematically and sustainably improve safety conditions for garment workers. Beyond tracking and reporting on action steps taken in a transparent manner, the Alliance organization and its members will seek to further support factory improvements through technical assistance, training, implementation support for functional Worker Committees, and in some cases financial assistance and wage support for workers if factories are closed for remediation.

The contents of the report do not constitute a guarantee of compliance with the applicable laws, the Alliance Standard or the absolute or continued safety against fire, electrical and/or structural integrity issues that may lead to injury or loss of life. The report is designed to provide a non-exhaustive summary of risk issues, based on a limited sampling and duration of time onsite by the named QAF. Neither the QAF nor the Alliance can certify or guarantee the quality, outcome, or effectiveness of actions taken in response to the report.

For more information and report feedback please go to: www.bangladeshworkersafety.org.

GENERAL INFORMATION

General Information	
Factory Name:	AB Mart Fashionwear Ltd.
Address:	786 Kakil Sataish Boradawra 13/3 Purbopara Mudafa Tongi, Gazipur Tongi, Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Tongi, Gazipur
Zip Code:	
Audit Duration:	01 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	04-23-2015
Final Report Date:	05-13-2015
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	One building
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	Highest occupied floor level: 13.11 m (43 ft), Building height: 15.55 m (51 ft); Stories above grade: 5, Stories below grade: 0, Occupied levels: 5.
Approximate Building Area (SF):	32,400 SF (GF: 7,600 SF, 1st: 7,600 SF, 2nd: 7,600 SF, 3rd: 7,600 SF, 4th: 2,000 SF).
Date of Building Construction:	Started in 2006 and finished in March 2008.
Date of Last Building Renovation/Addition:	2013
Ancillary Structures in Complex:	None
Approximate Ancillary Structures Area (SF):	n/a
Number of Occupants:	Total occupants: 626 (GF: 60, 1st: 240, 2nd: 250, 3rd: 70, 4th: 6)

Number of Ancillary Levels (Stories):	n/a
Occupancy Type:	
Construction Type:	
Height of Highest Occupied Floor Level Above Grade:	

ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	1) Non rated door opening (steel door) was found at the generator room, which is located in front of main exit discharge on the ground floor of the building. 2) Boiler room has unprotected opening (steel door) with finishing section on ground floor.
Source of Findings:	Photograph: Unprotected opening observed during assessment
Suggested Plan of Action:	Install fire rated doors and windows or fill in unprotected openings with fire resistive rated assemblies.
Suggested Deadline Date:	14 Aug 2015
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations




Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	Both exit enclosures are not provided with fire separations from the production floor. Collapsible gate and steel swing doors are installed in the exits.
Source of Findings:	Photograph: Exit enclosures are not fire separated from the production floor
Suggested Plan of Action:	Provide fire-resistive rated construction barriers and associated opening protection for exit enclosures in accordance with Alliance Standard Sections 4.5 and 4.6. Consult a qualified fire protection engineer to design the required rated construction barrier.


Suggested Deadline Date:	14 Aug 2015
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

Question:	Are separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	On the ground floor, the fabric storage area is not properly separated from the finishing area with appropriate fire separation. Compressor is installed under the waist slab of the staircase (stair-2) without any fire resistive construction barrier on gro
Source of Findings:	Photograph: Storage area and compressor on ground floor without fire separation.
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types in accordance with Alliance Standard Sections 3.4 and 4.5. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	06 Nov 2015
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

Question:	Certificates of Occupancy for each building have been issued and are on file.
Priority Level:	Low
Non-Compliance Level:	1
Description:	Occupancy certificate for the building was not found.
Source of Findings:	Document Review: There was no occupancy certificate for the building among the documents shown by the factory personnel.
Suggested Plan of Action:	Apply to FSCD for issuance of occupancy certificate and expedite the matter.
Suggested Deadline Date:	03 Jul 2015
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Fire Protection Systems

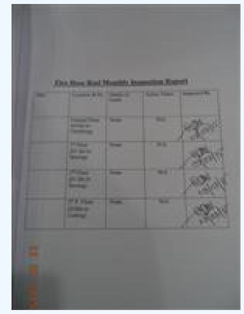
Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	Height of the highest occupied floor is 13.11 m (43 ft) which is above 10 m (33 ft). Class-III standpipe system shall be installed in the building at required locations as per Alliance Standard. One class-II hose connection with attached hose (40 mm
Source of Findings:	Photograph: Class-II hose connection with attached hose (40 mm)
Suggested Plan of Action:	Install standpipe system at required locations. Standpipe system must comply with NFPA 14. The hydraulic calculations should be submitted and reviewed by Alliance prior to start of work. All standpipe system installation activities shall be submitted for reviewed by the Alliance prior to commencement of installation in accordance with Section 5.4.3.2.
Suggested Deadline Date:	14 Aug 2015
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2

Question:	Does the building have a fire pump?
Priority Level:	High
Non-Compliance Level:	3
Description:	Fire pump is not provided. Standpipe system is currently fed by overhead reservoir. At 2nd floor, hose pressure was around 2 bar. Overhead water tank capacity is 4000 liter.
Source of Findings:	Visual Assessment: Fire pump not available
Suggested Plan of Action:	Install a dedicated fire pump for the facility in accordance with NFPA 20 to supply the demands of the connected fire protection systems along with a stored source of water sufficient to meet the demands in accordance with NFPA 22. Fire pump installation is to be tested for final acceptance in presence of Alliance and a final inspection of the installation shall be conducted by the Alliance prior to final acceptance of the installation by the Alliance as per clause 5.5.5. Acceptance testing of the installation shall be in accordance with NFPA 20, 22, and 25 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance by the Alliance. The pump is to be connected to an alternative power source such as a generator. The generator is to be configured with an ATS (auto starter).
Suggested Deadline Date:	14 Aug 2015
Standard:	Alliance Standard Part 5 Fire Protection Systems

Question:	Trouble or alarm notifications were not indicated on the fire alarm control panel.

Priority Level:	High	
Non-Compliance Level:	2	
Description:	Fire alarm control panel was not installed.	
Source of Findings:	Visual Assessment: Fire alarm control panel is not available.	
Suggested Plan of Action:	Install an automatic fire alarm and detection system for the facility. System shall comply with the Alliance Standard and NFPA 72. Consult a qualified fire protection engineer and/or authorized fire alarm company to design and install the system.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Alliance Standard Part 13 Section 13.10 Maintenance of Fire Protection Equipment	
Question:	Are notification and initiation devices for the fire alarm system installed at required locations based on occupancy type?	  
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Call points are provided only at one egress point on each floor. Stand alone smoke detectors are inadequate on all floors. Other visible and audible devices are placed where required but approved shop drawing for the installed system were not found.	
Source of Findings:	Photograph: Call points, Standalone smoke detector, Visible notification, Audible device	
Suggested Plan of Action:	Install initiating devices and notification appliances as required by the Alliance Standard and NFPA 72. This includes electrical supervision of all valves controlling fire protection systems (sprinklers, fire pumps, water supplies, etc.). Connect devices to an automatic fire alarm and detection system for the facility. All fire alarm installations shall be submitted for review by the Alliance prior to commencement of installation.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72	
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	
Non-Compliance Level:	3	

Description:	Fire department inlet (Siamese) and outlet connections are not installed.	
Source of Findings:	Visual Assessment: Fire department connections are not installed.	
Suggested Plan of Action:	Provide Fire Department (Siamese) connections in accordance with Alliance Standard Section 5.5.4. Connections shall match the Fire Service and Civil Defence hose thread standard.	
Suggested Deadline Date:	06 Nov 2015	
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Question:	Fire extinguishers are inspected, tested, and maintained as required.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Extinguishers are inspected monthly by factory personnel, but no documents were found in support of i) annual maintenance of extinguishers by a servicing agent nor ii) annual testing of nozzle of CO2 extinguisher.	
Source of Findings:	Photograph: Monthly inspection record of extinguisher.	
Suggested Plan of Action:	Establish an inspection, testing, and maintenance program for all fire extinguishers and prepare proper documentation. Program must comply with NFPA 10.	
Suggested Deadline Date:	06 Nov 2015	
Standard:	NFPA 10 Chapter 7	
Question:	Is the fire alarm and detection system monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense?	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Centralized alarm and detection system was not found.	
Source of Findings:	Visual Assessment: Fire alarm control panel was not found	
Suggested Plan of Action:	Install a new automatic fire alarm and detection system. Once installed, arrange for direct connection of the fire alarm and detection system to a central station monitoring service or the Fire Service and Civil Defence as per Alliance Standard Section 5.7.5. Until that time, a person trained to contact the Fire Service and Civil Defence in the event of fire alarm activation shall be provided. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.	
Suggested Deadline Date:	19 Jun 2015	

Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
Question:	Are inspection, maintenance, and testing procedures of the standpipe and hose system documented and up to date? Including inspection and testing of hoses if provided.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Inspection, maintenance, and testing procedures of the existing class-II hose system is not documented per NFPA 25.	
Source of Findings:	Document Review: Hose system maintenance documents	
Suggested Plan of Action:	Establish an inspection, testing, and maintenance program for the standpipe system. Program must comply with NFPA 25. Any newly installed standpipe system needs to be evaluated for compliance with the design pressure and flow demands of NFPA 14 or BNBC Section 5.4.3.	
Suggested Deadline Date:	06 Nov 2015	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	

Means of Egress

Question:	Interior exit stairways and ramps terminate at an exit discharge except where terminating at a rated exit passageway.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Stair-1 terminates at ground floor passageway, where non-rated openings are available from storage room, finishing & storage area and embroidery room. Stair-2 terminates at ground floor, where compressor is installed without fire resistive construct	
Source of Findings:	Photograph: Interior stairs terminates at non-rated exit passageway	
Suggested Plan of Action:	Remove the compressor from the exit enclosure and relocate in a safe location. Route exits directly to the exterior or provide an exit passageway in accordance with Alliance Standard Section 6.15 or an Egress Court in accordance with Alliance Standard Section 6.17.2 for non-compliant arrangements. Consult a qualified fire protection engineer to design and/or approve the required exit passageway or egress court.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	

Question:	Aisles are provided with the minimum unobstructed clear width of 0.9 m (36 in) based on occupant loads.	 
Priority Level:	High	
Non-Compliance Level:	2	
Description:	On 3rd floor, aisles width was found to be less than 0.9 m (36 in) and was obstructed with column, printing table and fabrics.	
Source of Findings:	Photograph: Obstructed and insufficient aisles on 3rd floor	
Suggested Plan of Action:	Provide proper aisles marking (clear width minimum 36 in.) and keep aisles free of storage. Relocate the machines accordingly if necessary to provide proper width. The path of egress travel along a means of egress shall not be interrupted by any obstruction. The capacity of the means of egress shall not be reduced along the path of travel.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Higher occupancy loads will require a greater width to accommodate the increased load. Alliance Standard Part 6 Section 6.5 Egress Width	
Question:	The path of egress along the means of egress is not reduced at any point along the path of travel and is sufficient for the occupant load.	 
Priority Level:	High	
Non-Compliance Level:	2	
Description:	The path of egress along the means of egress was sufficient for the occupant load. But on 3rd floor aisles were blocked by building column and printing table.	
Source of Findings:	Photograph: Aisles blocked by column and printing table	
Suggested Plan of Action:	Provide proper aisles marking (clear width minimum 36 in.) and keep aisles free of storage. Relocate the machines accordingly if necessary to provide proper width. The path of egress travel along a means of egress shall not be interrupted by any obstruction. The capacity of the means of egress shall not be reduced along the path of travel.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	
Question:	Exit discharge is directly to the exterior of the building, unless the requirements of 6.17.2 are met, at grade or provides direct access to grade. Exit discharge shall not reenter a building.	
Priority Level:	High	
Non-Compliance Level:	2	

Description:	Stair-1 terminates at a non rated passageway and discharges through main exit to outside of the building. Stair-2 discharges through an egress court having 3.5 ft width and non rated window openings to the production floors are found on one side of that e	
Source of Findings:	Photograph: Stair-2 discharge through a egress court	
Suggested Plan of Action:	Route exits directly to the exterior or provide an exit passageway in accordance with Alliance Standard Section 6.15 or an Egress Court in accordance with Alliance Standard Section 6.17.2 for non-compliant arrangements. Consult a qualified fire protection engineer to design and/or approve the required exit passageway or egress court.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	
Question:	Means of egress are free from impediments, obstructions, and stored materials.	 
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Aisles are obstructed on 3rd floor by building column, printing table and fabrics.	
Source of Findings:	Photograph: Means of egress obstructed	
Suggested Plan of Action:	Remove all impediments, obstructions, and stored materials from the means of egress. Keep all elements of the means of egress (exit path, aisles, stairs, corridors, etc.) continuously free and clear of all obstructions in accordance with Alliance Standard Section 6.3.9.	
Suggested Deadline Date:	22 May 2015	
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability	
Question:	Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.	
Priority Level:	High	
Non-Compliance Level:	2	

Description:	There are collapsible doors and steel swing doors in exits with locking arrangements.	
Source of Findings:	Photograph: Locking arrangement in exit door	
Suggested Plan of Action:	Remove all locking devices from all egress doors and means of egress components in accordance with Alliance Standard Section 6.8. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	
Suggested Deadline Date:	05 Jun 2015	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Doors along the path of egress have a minimum width of 0.8 m (32 in) and have required ratings.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	All door widths were greater than 0.8 m, but fire doors with proper rating were not provided. Exits doors are collapsible type and steel swing door.	
Source of Findings:	Photograph: Collapsible type and steel swing door installed in exits	
Suggested Plan of Action:	Replace non-compliant doors and frames in the means of egress with side-swinging doors. Replacement doors shall be a minimum width of 0.8 m (32 in), and are listed, approved, self-closing, fire rated door assemblies (door and frame) with latching panic hardware.	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.5.6 Minimum Widths. Increased occupant loads will require a door width greater than 0.8 m.	
Question:	All doors in a means of egress are of the side-hinged swinging type.	 
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Door installed in the means of egress are not side-hinged swinging type. Collapsible exit doors are installed from ground to 3rd floor.	
Source of Findings:	Photograph: Collapsible exit doors installed	
Suggested Plan of Action:	Replace non-compliant doors and frames in the means of egress with side-swinging doors. Replacement doors shall be a minimum width of 0.8 m (32 in), and are listed, approved, self-closing, fire rated door assemblies (door and frame) with latching panic hardware.	
Suggested Deadline Date:	14 Aug 2015	

Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Landings are provided with the same width in the direction of egress travel as the stair clear width provided at each level and at intermediate landings. Existing landings that are less than the stair width, shall reduce the overall available capacity of the stair.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Landing width of stair-2 on 2nd floor was less than the width of the stair. Considering landing width (30") as stair width, total stair width becomes 2.03 m; which can serve more than 250 persons.	
Source of Findings:	Photograph: Landing width	
Suggested Plan of Action:	In Accordance with Alliance Standard Section 6.9.2.2, increase the landing widths to make it equal to the width of the stairs or reduce the overall available capacity of the stairs as calculated in Section 6.5 (this may also effect the maximum occupant load of any floor or story of the building).	
Suggested Deadline Date:	14 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and Section 6.5	
Question:	Emergency power for means of egress illumination is verified at least once per year. If battery operated lights are used, these lights are tested on a monthly basis. Functional testing of battery powered lights is provided for a minimum 90 min once per year.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Record of verifying emergency power for means of egress illumination was not found.	
Source of Findings:	Document Review: No document regarding verification of emergency power for means of egress was found among the documents shown by the factory personnel.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for all egress lighting is verified at least once per year. If battery-operated lights are used, these lights shall be tested on a monthly basis. Functional testing of battery powered lights shall be provided for a minimum 90 min once per year.	
Suggested Deadline Date:	19 Jun 2015	
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	

Question:	Illuminated exit signs are placed at entrances to exits and along the path of egress anywhere the continuation of egress is not obvious or there is a change in the direction of the path of travel.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Exit signs are placed at entrances to exits, but most of the exit signs were not of the illuminated type.
Source of Findings:	Photograph: Most of the exit signs were not illuminated
Suggested Plan of Action:	Provide continuously illuminated exit signs per Alliance Standard Section 6.11. Signs shall be placed at all required exits and along egress paths, especially where there is a change in direction for the path of travel.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs


Question:	Changes in elevation of walking surfaces do not exceed 6.35 mm (1/4 in) unless provided with a beveled slope of 1 in 2 that does not exceed 12.7 mm (1/2 in).
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Change in elevation of walking surfaces exceeds 6.35 mm at exit locations on 3rd floor and ground floor.
Source of Findings:	Photograph: Change in elevation of walking surfaces
Suggested Plan of Action:	Provide a uniform slope/ramp for the walking surface. Slope should not exceed 1 in 20 in the direction of travel. Any changes in elevation (protrusions or lips) must not exceed 1/4 in.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces

Question:	Illuminated exit signs are provided with battery backup or emergency power and are continuously illuminated.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Exit signs are provided with IPS backup but most of the exit signs are not illuminating continuously and not illuminated type.
Source of Findings:	Photograph: IPS backup for exit sign
Suggested Plan of Action:	Provide an emergency power source (battery back-up or connection to emergency power system) for illuminated exit signs.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standards Part 6 Section 6.11 Exit Signs and Part 10 Section 10.12 Illumination of Exit Signs and Means of Escape

Question:	All occupied roofs are provided with parapets or guards with a minimum height of 1067 mm (42 in.).
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Roof of the building is unoccupied. However on 4th floor, which is partially occupied, parapet height was found 30 inch.
Source of Findings:	Photograph: Parapet on 4th floor
Suggested Plan of Action:	Provide parapets or guards with a minimum height of 1067 mm (42 in.) for all occupiable roof areas in accordance with Alliance Standard Section 6.12.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standard Part 6 Section 12 Handrails and Guards

Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Occupant loads are not posted anywhere in the factory premises.
Source of Findings:	Visual Assessment: Occupant loads are not posted
Suggested Plan of	Post the occupant load for all assembly and production floor areas in a

Action:	conspicuous space near the main exit or exit access doorway for the space in accordance with Alliance Standard Section 6.4.4.	
Suggested Deadline Date:	19 Jun 2015	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	All paths of egress are provided with compliant means of illumination.	 
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	All paths of egress are not provided with compliant means of illumination. Ordinary CFL bulbs are used as emergency lights in some area, which do not provide sufficient illumination as required in accordance with Alliance Standard.	
Source of Findings:	Photograph: Ordinary CFL bulbs are used as emergency lights	
Suggested Plan of Action:	Install emergency lighting for all paths of egress in accordance with Alliance Standard Section 6.7. Illumination needs to be a minimum of 10 lux for all corridors, exit doors and stairways. Illumination for aisles needs to be a minimum of 2.5 lux. Egress lighting shall be provided with emergency power or supplemented with battery powered lights that provide a minimum of 10 lux for not less than 30 mins in the event of failure of normal lighting.	
Suggested Deadline Date:	06 Nov 2015	
Standard:	Alliance Standards Part 6 Section 6.7 Egress Illumination and Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape	
Question:	Emergency power for exit signs is tested at least once per year. If battery operated, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	No record of testing existing IPS backup power for exit signs was found.	
Source of Findings:	Document Review: No document regarding testing of emergency power for exit signs was found among the documents shown by the factory personnel	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit signs is verified at least once per year. If battery-operated signs are used, these signs shall be tested on a monthly basis. Functional testing of battery powered signs shall be provided for a minimum 90 min once per year.	
Suggested Deadline Date:	19 Jun 2015	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means	

	Of Escape.	
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	 
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	For both the stairs, handrails are provided only on one side.	
Source of Findings:	Photograph: Handrails are provided only on one side	
Suggested Plan of Action:	Provide handrails on both sides of each stairway. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Mount new handrail at a height consistent with existing height (between 30 in. and 44 in).	
Suggested Deadline Date:	06 Nov 2015	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Question:	Exit signs have appropriate illumination levels and contrasting graphics.	 
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	All exit signs do not have appropriate illumination level and contrasting graphics.	
Source of Findings:	Visual Assessment: Exit sign without appropriate illumination level at exit and inside the floor	
Suggested Plan of Action:	Provide continuously illuminated exit signs at all required exits and along egress paths, especially where path has a change of direction. Exit signs may be illuminated either by lamps exterior to the sign or contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m2 may also be used.	
Suggested Deadline Date:	06 Nov 2015	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs	
Question:	Stair designation signs are provided at each floor entrance from the stair to the floor in English and Bengali. Signs indicate the name of the stair and the floor level. Signs are posted adjacent to the door.	
Priority Level:	Low	
Non-Compliance Level:	1	

Description:	Floor level was mentioned for every floor but stair designation sign was not provided at any floor entrance from the stair to the floor.
Source of Findings:	Photograph: Floor level sign posted but stair designation sign not provided
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level in both English and Bengali.
Suggested Deadline Date:	19 Jun 2015
Standard:	Alliance Standard Part 6 Section 6.9 Stairs

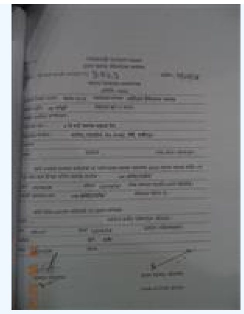
Fire Safety Programs

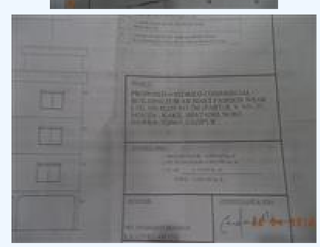
Question:	Are the required number of people trained and certified in fire fighting, first aid, and rescue training by the appropriate authority.
Priority Level:	High
Non-Compliance Level:	2
Description:	Document or certificate from appropriate authority for training on fire fighting, first aid, and rescue was not available.
Source of Findings:	Visual Assessment: No document regarding fire training was found among the documents shown by factory personnel.
Suggested Plan of Action:	Need to provide training and certification for the required number of people in fire fighting, first aid, and rescue training by an appropriate authority in accordance with the Alliance Safety Training Curriculum.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standard Part 13 Human Element Programs
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Alliance Safety Training was not completed and no documentation of any training program in accordance with the Alliance Safety Training Curriculum was found.
Source of Findings:	Document Review: Alliance Safety Training not completed and no documentation available.
Suggested Plan of Action:	Implement training programs and document in accordance with the Alliance Safety Training Curriculum.
Suggested Deadline Date:	19 Jun 2015

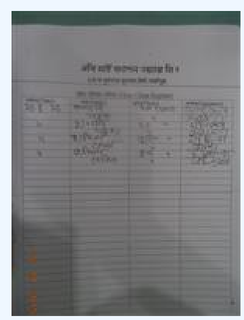
Standard:	Alliance Standards Part 13	
Question:	Storage areas underneath the cutting tables are clear of combustibles.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Fabrics are stored underneath the cutting tables of cutting section on 3rd floor of the building.	
Source of Findings:	Photograph: Storage underneath the cutting tables	
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables in accordance with Alliance Standard Section 13.7.2.	
Suggested Deadline Date:	05 Jun 2015	
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	An emergency evacuation plan has been developed and communicated to all employees.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Through the interview it was noted that the workers are aware of the evacuation procedure upon commencment of the alarm. However, no procedure defining evacuation process was available. Only designated fire fighting, first aid, and rescue team were availa	
Source of Findings:	Document Review: Fire fighting team, first aid & rescue team	
Suggested Plan of Action:	Develop an emergency evacuation plan in accordance with the Alliance Standard and communicate the plan to all employees.	
Suggested Deadline Date:	19 Jun 2015	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Emergency egress maps are posted at the entrance to each exit stair or main point of egress.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Emergency egress maps are not posted on all floors at the entrance to exit of Stair-2 (North Stair). Emergency egress maps are posted for Stair-1 (South Stair).	
Source of Findings:	Photograph: Emergency egress map	

Suggested Plan of Action:	Create and post emergency evacuation maps at the entrance to each stair or main point of egress.
Suggested Deadline Date:	19 Jun 2015
Standard:	Alliance Standards Part 13 Section 13.4 Evacuation Plan
Question:	A Fire Safety Director position has been filled.
Priority Level:	Low
Non-Compliance Level:	2
Description:	No viable documentation or physical presence of Fire Safety Director were noted.
Source of Findings:	Document Review: No record of filling the position of fire safety director has been found.
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has sufficient training to be able to carry out the required duties in accordance with Alliance Standard Section 13.1.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director
Question:	A hot-work permit program has been established.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Hot work permit program is not established by the factory authority.
Source of Findings:	Document Review: No hot work permit documents was presented by the factory personnel during audit.
Suggested Plan of Action:	Develop a hot work permit program. The program must comply with the requirements of NFPA 51B.
Suggested Deadline Date:	06 Nov 2015
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B

Question:	Are all applicable permits up to date including Fire License & Boiler License.
Priority Level:	Low
Non-Compliance Level:	2
Description:	1) Fire license, Boiler license, Trade license, Factory license, Boiler license, Boiler operator license are valid and up to date. 2) Electrician license not available. 3) BERC waiver certificate for 132 KW diesel generator is not available. F
Source of Findings:	Document Review: Electrician license and BERC waiver certificate are not available.
Suggested Plan of Action:	Apply to the proper authority and keep all the licenses and permits up to date.
Suggested Deadline Date:	19 Jun 2015
Standard:	Alliance Standard Part 13 Human Element Programs





		 
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Fire department pre-planning was not found.	
Source of Findings:	Document Review: No document regarding fire department pre-planning was provided in the documents shown by factory personnel.	
Suggested Plan of Action:	Complete Fire Department pre-planning activities with the local Fire Service and Civil Defence in accordance with Alliance Standard Section 13.1.1(2).	
Suggested Deadline Date:	19 Jun 2015	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	A written housekeeping policy is established and enforced by the factory authority but it is not per Alliance Standard.	
Source of Findings:	Document Review: Housekeeping policy	
Suggested Plan of Action:	Establish written corporate and plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m2 (500 ft2). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (1/8 in.). Establish written corporate and	

	plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling.	
Suggested Deadline Date:	29 Jan 2016	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	Smoking is only allowed at designated areas.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Smoking is prohibited in the factory premises as per verbal information from the factory personnel. However no sign is posted in the factory premises.	
Source of Findings:	Visual Assessment: Sign prohibiting smoking is not posted in the factory premises.	
Suggested Plan of Action:	Smoking is prohibited in garment factory buildings or similar uses. Post "No Smoking" signs in English and Bengali at all building entrances. If the Owner designates a smoking area outside the building, information on the location of these areas shall be posted on the "No Smoking" signs.	
Suggested Deadline Date:	05 Jun 2015	
Standard:	Alliance Standards Part 13 Section 13.5 Smoking	