INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name:	**CLIFTON TEXTILES & APPARELS LTD.**
Address:	**180, Baizid Bostami Road Nasirabad I/A Area-1, Building -1, Chittagong Chittagong Chittagong Bangladesh**
Assessor:	**Emkay Enterprises LTD**
Date:	**31 Jan 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:	CLIFTON TEXTILES & APPARELS LTD.
Address:	180, Baizid Bostami Road Nasirabad I/A Area-1, Building -1, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4210
Audit Duration:	1 Days 0 Hours
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	02 February 2015
Final Report Date:	To be filled out by the “Alliance QA” representative
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There is one building.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	Main RCC Building: 7-stories with steel shed on roof deck of 5th floor: Ground floor+6
Approximate Building Area (SF):	Total: 191,740.00 SF (Main RCC Building: G.F: 28,000; 1st: 28,000; 2nd: 28,000; 3rd: 28,000, 4th: 28,000, 5th: 28,000, roof: 23,740).
Date of Building Construction:	2003-2005
Date of Last Building Renovation/Addition:	No renovation or addition.
Ancillary Structures in Complex:	No ancillary structure was available.
Approximate Ancillary Structures Area (SF):	N/A
Number of Occupants:	Total Occupant: 3,232. (Main RCC Building: G.F: 10; 1st: 238; 2nd: 771; 3rd: 755, 4th: 728, 5th: 729, roof:

	Capacity: 900 (During dining)).
Number of Ancillary Levels (Stories):	N/A
Occupancy Type:	Main RCC Building: G.F: Occupancy Type-H2 (Storage) and B2 (Daycare); 1st to 5th floor: Occupancy Type-G2 (RMG) and H2 (Storage); Roof: Occupancy Type-E4 (Prayer room), B1 (training room) and E3 (Dining).
Construction Type:	Main RCC Building: G.F to 6th floor: Type-1 (RCC frame) and non-rated steel shed on roof deck of 5th floor.
Height of Highest Occupied Floor Level Above Grade:	Main RCC building: Building Height: 28.96 m (95 ft), Highest Occupied Floor Height: 24.39 m (80 ft).

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:	All the exits were not fully protected by fire rated assemblies. Unprotected glass windows were observed on most of the floors in the North-West stairwells.
Source of Findings:	Photograph: 1. Unprotected opening in exit, 2. Unprotected glass window at North-West stairwells.
Suggested Plan of Action:	Provide required fire resistance rated opening protection (Door, Window, Hatch Cover etc.) at opening and penetrations through fire rated assemblies or close the unprotected openings with fire-resistance rated construction as required. Consult a qualified fire protection engineer to design the required rated opening protection.
Suggested Deadline Date:	16 Jun 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:	All the exits are not fully protected by continuous fire rated assemblies. The main RCC building is 7 stories, walls of all stairwells are 10 in. by 5 in. masonry brick walls. Fire rated doors are installed in most of the exits leading to the stairwells but proper certification of fire doors is not available. Also swinging steel doors are installed in some of the exits leading to the stairwells.
Source of Findings:	Photograph: 01. Unprotected exit enclosure of North-East stair, 02. Fire rated door of South-East stair.
Suggested Plan of Action:	Provide 2-hour fire-resistive rated barriers at exit enclosures with 1.5-hour fire-rated opening protection (Door, window, etc.). The new fire rated door shall be side-hinging, swinging, with auto closure and without locking arrangement. Minimum width of new fire rated door will be 1.0 m (39 in.). Consult a qualified fire protection engineer to design the required rated construction barriers with opening protection.
Suggested Deadline	16 May 2015

Date:		
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Is the fire resistance materials of structural members in good condition and free of damage?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Main RCC building was Reinforced Concrete (RCC) frame building (GF to 6th floor) and non-rated steel shed on roof deck of 5th floor. From visual inspection all those structural members were found free of damage during assessment, but the steel shed on roof deck was non-rated. The total height of the building above grade was 28.96 m (95 ft) (6 stories) and the highest occupiable floor level above grade was 26.83 m (88 ft). As per Alliance Standard Section 3.2.1, buildings with occupiable floor heights above grade level more than 20 m (65 ft) are classified as high-rise buildings. Section 3.6.2.4 does not allow non-rated construction for high-rise buildings.	
Source of Findings:	Photograph: Non-rated steel shed at roof.	
Suggested Plan of Action:	Remove the non-rated components, replace them with rated materials, or provide fire resistive rated protection for the steel shed construction to meet permitted construction type materials and requirements.	
Suggested Deadline Date:	16 May 2015	
Standard:	BNBC Part 3 Chapter 3	
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	01. Unprotected storage areas (finished goods store & Accessories store) were observed from the ground floor to the 5th floor except 1st floor. 02. Unprotected boiler room was noted on ground floor.	
Source of Findings:	Photograph: 01. Unprotected store room on ground floor, 02. Unprotected boiler room on ground floor.	
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:	16 May 2015	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	

Fire Protection Systems

Question:	Is the building protected by an automatic sprinkler system?
Priority Level:	High
Non-Compliance Level:	3
Description:	The height of main RCC building is 28.96 m (95 ft) (approx.) and the highest occupiable floor level (from grade level to roof deck) is 26.83 m (88 ft.). Hence per the ALLIANCE Standard Part 5 Section 5.3.2.1.1 An automatic sprinkler system is required, but automatic sprinkler system is not installed all through the building. An automatic sprinkler system is installed storage area of ground floor and finishing store area of all floors.
Source of Findings:	Photograph: Partial automatic sprinkler system provided on Ground Floor.
Suggested Plan of Action:	Install automatic sprinkler system through out the building as per NFPA 13. Any newly installed automatic sprinkler system shall be evaluated for compliance with the design pressure and flow demands of NFPA 13. Consult a qualified fire protection engineer before installing new system. Automatic sprinkler system 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 5.3.4. Acceptance testing of the installation shall be in accordance with NFPA 13 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance by the Alliance.
Suggested Deadline Date:	31 Oct 2015
Standard:	Reference Alliance Standards Part 3 Section 3.5.3 Existing Buildings, Part 5 Section 5.3 Automatic Sprinkler Systems and Section 6.13 Travel Distance

Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	No Class-III (both a 40 mm connection with attached hose and a 65 mm connection) standpipe system was found. Only A Class-I standpipe system (65 mm connection with attached hose) was found at South-East stairwells and inside the floor near North-East stairwells. Also irregular standpipe hose connections (25 mm connection with attached hose) were found inside the floor near North-West stairwells.
Source of Findings:	Photograph: O1. Class-I standpipe system at South-East stairwells. 02. Irregular standpipe system near North-West stairwells.
Suggested Plan of Action:	Install A Class III standpipe system to meet the requirements of Alliance Standard Section 5.4. Consult a qualified fire protection engineer before modify or installing a new system as per NFPA 14. Any newly installed standpipe system needs to be evaluated for compliance with the design pressure and flow demands of NFPA 14.
Suggested Deadline Date:	16 May 2015

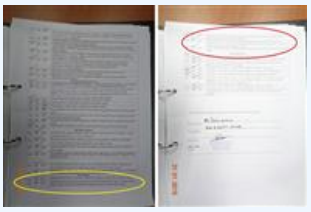
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2	
Question:	Does the building have a fire pump?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	The factory has a fire pump but the capacity for existing system must be evaluated per Alliance requirement.	
Source of Findings:	Photograph: Dedicated fire pump.	
Suggested Plan of Action:	Evaluate the capacity and adequacy of the existing fire pump to determine if it can supply the required installation of standpipes. If necessary, modify the fire pump for the facility in accordance with NFPA 20 to meet 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 the 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.	
Suggested Deadline Date:	16 May 2015	
Standard:	Alliance Standard Part 5 Fire Protection Systems	
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:	3	
Description:	Pull stations are provided at egress points: Manual fire alarms are installed. Push type switches are used as fire alarm call points. Smoke detectors: Automatic fire and smoke detection system was installed but the numbers of detectors are not sufficient per NFPA 72. Audible and Visual devices: Visual and audible devices are provided.	
Source of Findings:	Photograph: 01. Fire alarm call point, 02. Visual and audible devices.	
Suggested Plan of Action:	Automatic fire alarm and detection systems shall be installed throughout all new and existing buildings in accordance with NFPA 72 and Alliance Standard. The pull stations at egress points, centralized and addressable smoke or fire detection devices through out, and visual and audible devices spaced appropriately in accordance with NFPA 72. Installation of automatic fire alarm and detection systems shall be required to provide shop drawings as outlined in NFPA 72. These drawings shall include all details as outlined in NFPA 72. Acceptance testing of the installation shall be in accordance with NFPA 72 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance by the Alliance.	

Suggested Deadline Date:	16 May 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 connection was found but identification marking was not present during inspection.	
Source of Findings:	Photograph: Fire department connection.	
Suggested Plan of Action:	Provide Fire Department (Siamese) connections with proper markings in accordance with Alliance Standard Section 5.5.4. Connections shall match the Fire Service and Civil Defense hose thread standard. Ensure that a stored source of water sufficient to meet the demands in accordance with NFPA 22 is provided for the facility. Consult a qualified fire protection engineer to design this requirement.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Question:	All valves controlling the automatic sprinkler systems are electrically supervised by a listed fire alarm system control unit.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Fire alarm control unit was available but valves of automatic sprinkler systems are not connected to the control panel and are not electrically supervised.	
Source of Findings:	Visual Assessment: Valves of automatic sprinkler systems were not connected to the fire alarm control panel during this inspection.	
Suggested Plan of Action:	Provide monitoring for all valves controlling automatic sprinkler systems, fire pumps, and water supply systems from the existing Fire Alarm Control Unit. The valves shall be electrically supervised by a listed fire alarm system control unit as per Alliance Standard Section 5.3.5 and NFPA 13 chapter 7 System requirements. Consult a qualified fire protection engineer for these purposes.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference Alliance Standard Part 5 Section 5.3.5 Supervision and Alarms.	
Question:	Aisles in storage areas are free of storage based on design criteria used for	

	the sprinkler system.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No aisles markings were found and the spacing between two stacks of stored materials was measured to be less than 1.1 m during inspection.	
Source of Findings:	Visual Assessment: The spacing between two stacks was measured less than 1.1 m during inspection.	
Suggested Plan of Action:	Define and mark minimum aisles which shall be maintained free of storage in accordance with NFPA 13 chapter 12, based on the design criteria used for the sprinkler system.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Alliance Standard Part 5 Section 5.3.6.3	
Question:	All storage is maintained with a 460 mm (18 in.) minimum clearance from the top of storage to the sprinkler deflector.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Clearances between the tops of storage and sprinkler deflectors were measured to be less than 460 mm (18 in.).	
Source of Findings:	Photograph: Clearance between the top of storage and sprinkler deflector.	
Suggested Plan of Action:	Maintain a 460 mm (18 in.) minimum clearance from the top of storage to the sprinkler deflector for all storage areas.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference Alliance Standards Part 5 Section 5.3.6.1 Storage Clearance	
Question:	Fire extinguishers are inspected, tested, and maintained as required.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Only the inspection checklists with the monthly dates on each extinguisher were provided by the fire and safety officer. Not all of the requirements of NFPA 10 are being revised. While interviewing the person responsible for this, it was found that only the pressure gauges (where available) and expiration dates are being checked.	
Source of Findings:	Photograph: Inspection check list of extinguisher.	
Suggested Plan of	Establish an inspection, testing and maintenance program for all fire	

Action:	extinguishers. Program must comply with the requirements of NFPA 10.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	NFPA 10 Chapter 7	
Question:	Are hangers, bracing, and restraints properly installed and supporting the system piping?	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Sprinkler system piping is only fitted with vertical U-hook hanger, no angular or sway bracing was noted during inspection.	
Source of Findings:	Photograph: Sprinkler system piping fitted with vertical U-hook hanger.	
Suggested Plan of Action:	The hangers, bracing, and restraint of sprinkler piping system shall be modified to meet the requirements of NFPA 13 chapter 9. Consult a qualified fire protection system designer for that modification.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference NFPA 13 Chapter 9 Hanging, Bracing, and Restraint of System Piping.	
Question:	Are inspection, maintenance, and testing procedures of the sprinkler system documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	No plan or record of inspection, maintenance and testing of the sprinkler system were found during inspection.	
Source of Findings:	Document Review: No inspection, maintenance, and testing documents were found.	
Suggested Plan of Action:	Establish an inspection, maintenance and testing program for the sprinkler system. Program must to comply with the requirements of NFPA 25.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference NFPA 25 Chapter 5 Sprinkler Systems Table 5.1.1.2	
Question:	Does the automatic sprinkler system have an approved audible device activated by waterflow equal to the flow of one sprinkler?	
Priority Level:	Low	
Non-Compliance Level:	2	

Description:	No audible device is connected with the sprinkler system.	
Source of Findings:	Visual Assessment: No audible device is connected with the sprinkler system.	
Suggested Plan of Action:	Install an approved audible device connected to the automatic sprinkler system which will activate via water flow equal to the flow of one sprinkler. Once connected to the existing fire alarm system, activation of the water flow must activate the notification appliances for the building. These arrangements need to be designed and implemented in accordance with NFPA 13 chapter 7 System requirements. Assign a qualified fire protection engineer for these purposes.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference Alliance Standards Part 5 Section 5.3.5.2 Alarms.	
Question:	Are identification signs for the sprinkler system installed at the required locations?	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	No identification signs for the required components of sprinkler system were found during inspection.	
Source of Findings:	Visual Assessment: No identification signs for sprinkler system were found.	
Suggested Plan of Action:	Provide identification signs with permanently marked, water proof metal or rigid plastic for the required components of sprinkler system per NFPA 13, chapter-6 System components and hardware.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference NFPA 13	
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:	1	
Description:	Plan and record of inspection, testing and maintenance of standpipe and hose system were not available during inspection.	
Source of Findings:	Document Review: No plan and record were found during this inspection.	
Suggested Plan of Action:	Establish an inspection, testing and maintenance program for the standpipe and hose system. Program must comply with the requirements of NFPA 25.	
Suggested Deadline Date:	08 Aug 2015	

Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Is signage for the standpipe system installed at required locations and on required components?	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Signage is provided for the existing standpipe system but not at all required locations.	
Source of Findings:	Photograph: No signage for standpipe system.	
Suggested Plan of Action:	Install signage with required components at required locations for the standpipe system as per NFPA 14.	
Suggested Deadline Date:	04 Apr 2015	
Standard:	Reference NFPA 14 Chapter 6	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Inspection, testing and maintenance program was available for fire pump but not covering all the items per NFPA 25.	
Source of Findings:	Photograph: Inspection, testing and maintenance program of fire pump.	
Suggested Plan of Action:	Revise the inspection, testing and maintenance program for the fire pump. Program shall comply with NFPA 25 including training appropriate workers on proper operation of fire pump.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		
Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Main RCC building: Highest occupied floor: 6th floor; Number of stairs: 03 stairs; Maximum worker in a floor (2nd floor): 771; The total minimum width of stairs required: 771*8 mm per person= 6.17 m and total width of stair provided:	

	1.72 m+1.82 m+2.33 m = 5.87 m; The total minimum width of aisles required: 771*5 mm per person= 3.86 m and total width of aisles provided: 11*1.1 m = 12.10 m; The total minimum width of doors required: 771*4 mm per person= 3.08 m and total width of doors provided: 1.40 m+1.35 m+1.73 m = 4.48 m. So, Occupant loads exceed the capacity of the available means of egress (stair). Required total minimum width of stair was 6.17 m but available total minimum width of stairs was 5.87 m.	
Source of Findings:	Visual Assessment: Measuring the width of the stair and calculations.	
Suggested Plan of Action:	Reduce the occupant load per the capacity of available means of egress (stair) or increase the capacity of means of egress per BNBC 2006 part 4 chapter 3 Table-4.3.2.	
Suggested Deadline Date:	07 Mar 2015	
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load	
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:	3	
Description:	Doors in the path of egress are unlocked in the direction of egress during working hours, but locking devices are provided in the doors.	
Source of Findings:	Photograph: Locking devices on doors.	
Suggested Plan of Action:	Keep the doors unlocked in the direction of egress at all times. All hasps, locks, slide bolts and other locking devices shall be removed where available.	
Suggested Deadline Date:	07 Mar 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:	3	
Description:	The minimum widths of doors were measured more than 0.8 m (32 in.) in all floors. But some of the doors were non-rated steel swinging doors.	
Source of Findings:	Photograph: Non-rated steel swinging door in exits.	
Suggested Plan of Action:	Provide required fire rated doors in all exits. Fire doors shall be of the side hinged, swinging, self-closing type and shall swing in the direction of egress. New door shall have a minimum clear width of 1.0 m (39 in.). Consult a qualified fire protection engineer to design the fire rated door.	

Suggested Deadline Date:	16 May 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:	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:	3	
Description:	A intermediate landing was measured to be 67 mm (2.64 in.) less than the width of the stair for South-East stair, 88 mm (3.48 in.) less for North-West stair, and 609 mm (24 in.) less for North-West stair and reduces the effective capacity of the stairs. When calculating the total required width of stairs considering these deviations, insufficient egress is provided per BNBC 2006 part 4 chapter 3 Table: 4.3.2.	
Source of Findings:	Visual Assessment: By measuring the width of intermediate landings and width of stairs.	
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 affect the maximum occupant load of any floor or story of the building). Review the stair configuration and specific egress capacity requirements to establish compliance options.	
Suggested Deadline Date:	16 May 2015	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and Section 6.5	
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:	3	
Description:	Handrails with minimum height of 32 inch were found all through the both stairs except landing parts of the stairs. Width of South-East stair was measured to be more than 2.2 m (87 in.). Also intermediate handrails are provided.	
Source of Findings:	Photograph: 01. Handrail in both side of the stair, 02. No handrail in landing part, 03. Intermediate handrail of the stair.	

Suggested Plan of Action:	Install handrails in all stairs on both sides of the stairs.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Question:	Every door in a stair enclosure serving more than 5 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Re-entry is provided available in the every exit doors (fire doors) leading to stairwells but locking device is provied. If the door is locked it can only open from inside not from outside.	
Source of Findings:	Photograph: No provision for re-entry in fire door.	
Suggested Plan of Action:	Provide re-entry per Alliance Standards Part 6 Section 6.8 Doors and Gates. And door shall be kept lock free in all situations. Re-entry floor and door shall be marked with proper signage.	
Suggested Deadline Date:	16 May 2015	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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:	Changes in elevation were found in egress routes at various locations without beveled slopes and markings.	
Source of Findings:	Photograph: Change in elevation in the egress route.	
Suggested Plan of Action:	Provide a beveled slope to not exceed 12.7 mm (1/2 in). Also provide additional signage or floor markings.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces	
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 for any assembly or the production floor in a conspicuous space, near the main point of egress.	
Source of Findings:	Visual Assessment: No signage was found during this inspection.	
Suggested Plan of Action:	Post the maximum occupant load for every assembly and production area in a conspicuous space near the main exit or exit access doorway for the space.	
Suggested Deadline Date:	07 Mar 2015	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
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:	1	
Description:	Testing plan and records were not present during the inspection.	
Source of Findings:	Document Review: No document was provided during the inspection.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all means of egress lights are 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:	21 Mar 2015	
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	
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 testing plan and records were available during this inspection.	
Source of Findings:	Document Review: No document was shown during inspection.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit signs is tested at least once per year. If battery operated signs	

	are used, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.	
Suggested Deadline Date:	21 Mar 2015	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
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:	2	
Description:	No stair designation signs were posted at any of the stairs.	
Source of Findings:	Visual Assessment: Stair designation signs were not found during this inspection.	
Suggested Plan of Action:	Provide stair designation signs at each floor entrance from the stairs to the floor in English and Bengali. Signs shall be indicating the name of the stair and the floor level. Signs shall be posted adjacent to the door.	
Suggested Deadline Date:	21 Mar 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:	1	
Description:	600 workers have been trained from Fire Service and Civil Defence and 250 workers have been trained from BGMEA out of 3232 workers.	
Source of Findings:	Document Review: 600 workers Fire Service and Civil Defence and 250 worker from BGMEA have been trained.	
Suggested Plan of Action:	Provide training for the required number of people (25% of total workers) certified in firefighting, first aid, and rescue training by the appropriate authority.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Alliance Standard Part 13 Human Element Programs	

Question:	Storage areas underneath the cutting tables are clear of combustibles.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Combustibles were found underneath the cutting tables during the inspection.	
Source of Findings:	Photograph: Combustibles underneath the cutting table.	
Suggested Plan of Action:	Keep areas beneath cutting tables clear of combustibles as all times.	
Suggested Deadline Date:	28 Feb 2015	
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	Emergency egress maps are posted at the entrance to each exit stair or main point of egress.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Emergency egress maps are posted at the entrance to exit stair and main point of egress but not at all the exit stairs.	
Source of Findings:	Photograph: Emergency egress map.	
Suggested Plan of Action:	Post emergency egress map at the entrance to each exit stair and main points of egress.	
Suggested Deadline Date:	21 Mar 2015	
Standard:	Alliance Standards Part 13 Section 13.4 Evacuation Plan	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Fire Department pre-planning has not been completed.	
Source of Findings:	Document Review: No document was found during this inspection.	
Suggested Plan of Action:	Complete fire department per-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	21 Mar 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:	2	
Description:	A written housekeeping policy is not established or enforced.	
Source of Findings:	Document Review: No written housekeeping policy was found.	
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.	
Suggested Deadline Date:	31 Oct 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	No hot-work permit program has been established. During visit no hot-work operation was ongoing in the facility.	
Source of Findings:	Document Review: No document was found during inspection.	
Suggested Plan of Action:	Develop a hot work permit program. The program must comply with the requirements of NFPA 51B.	
Suggested Deadline Date:	08 Aug 2015	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	