INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name:	**VENTURA (BANGLADESH) LIMITED**
Address:	**Plot 65-69, Sector 02 KEPZ, North Patenga KEPZ,Chittagong Chittagong Chittagong Bangladesh**
Assessor:	**Emkay Enterprises LTD**
Date:	**17 Sep 2014**

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:	VENTURA (BANGLADESH) LIMITED
Address:	Plot 65-69, Sector 02 KEPZ, North Patenga KEPZ,Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4204
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	21-September-2014
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 are 9 Buildings: 1. Main Building - 1 (Building A); 2. Main Building - 2 (Building B); 3. Main Building - 3 (Building C); 4. Ancillary Building -1 (Building D); 5. Ancillary Building - 2 (Garbage Store); 6. Ancillary Building - 3 (Transformer Building); 7. Ancillary Building - 4 (Fire Command Station); 8. Ancillary Building - 5 (Security Post -1); 9. Ancillary Building - 6 (Security Post -2).
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1. Main Building - 1 (Building A) : 6-stories; 2. Main Building - 2 (Building B) : 1-story (Proposed 10-stories building under construction); 3. Main Building - 3 (Building C) : 4-stories (Construction complete machine and device installation going on)
Approximate Building Area (SF):	Total square footage is 284,298 SF; 1. Main Building-1 (Building A): 214,950 SF,(GF: 35,825 SF,1st Floor: 35,825 SF, 2nd Floor: 35,825 SF, 3rd Floor: 35,825 SF, 4th Floor: 35,825 SF, 5th Floor: 35,825 SF); 2. Main Building-2 (Building B): Under Construction; 3. Main Building-3 (Building C): 69,348 SF, (GF: 17,337 SF, 1st Floor: 17,337 SF, 2nd Floor: 17,337 SF, 3rd Floor: 17,337 SF).
Date of Building Construction:	1. Main Building - 1 (Building A): 2011-2013; 2. Main Building - 2 (Building B); Under construction; 3. Main Building - 3 (Building C); 2013-2014; 4. Ancillary Building - 1 (Building D): 2013- 2014; 5. Ancillary Building - 2 (Garbage Store): 2014; 6. Ancillary Building - 3 (Transformer Building) 2013; 7. Ancillary Building - 4 (Fire Command Station): 2014; 8. Ancillary Building - 5 (Security Post -1): 2013; 9. Ancillary Building - 6 (Security Post -2): 2013.
Date of Last Building	N/A

Renovation/Addition:	
Ancillary Structures in Complex:	There are 6 Ancillary Structure: 1. Ancillary Building - 1 (Building D); 2. Ancillary Building - 2 (Garbage Store); 3. Ancillary Building - 3 (Transformer Building); 4. Ancillary Building - 4 (Fire Command Station); 5. Ancillary Building - 5 (Security Post -1); 5. Ancillary Building - 6 (Security Post -2).
Approximate Ancillary Structures Area (SF):	Total square footage is 53,479 SF; 1. Ancillary Building - 1 (Building D): 48,867 SF,(GF: 8,885 SF,1st Floor: 4,442 SF, 2nd Floor: 8,885 SF, 3rd Floor: 8,885 SF, 4th Floor: 8,885 SF, 5th Floor: 8,885 SF); 2. Ancillary Building - 2 (Garbage Store): 2,360 SF; 3. Ancillary Building - 3 (Transformer Building): 1,140 SF; 4. Ancillary Building - 4 (Fire Command Station): 322 SF; 5. Ancillary Building - 5 (Security Post -1): 395 SF; 6. Ancillary Building - 6 (Security Post -2): 395 SF.
Number of Occupants:	Total Occupant Load is 961 occupants. 1. Main Building-1 (Building A): 911 occupants,(GF: 20 occupants, 1st Floor: 0 occupants, 2nd Floor: 494 occupants, 3rd Floor: 308 occupants, 4th Floor: 79 occupants, 5th Floor: 10 occupants); 2. Main Building-2 (Building B): 0 occupant (Under Construction); 3. Main Building-3 (Building C): 0 (Construction complete machine and device installation going on) 4. Ancillary Building - 1 (Building D): 30 occupants,(GF: 30 occupants, 1st Floor: 0 occupant, 2nd Floor: 0 occupant, 3rd Floor: 0 occupant, 4th Floor: 0 occupant, 5th Floor: 0 occupant); 5. Ancillary Building - 2 (Garbage Store): 5 occupants; 6. Ancillary Building - 3 (Transformer Building): 3 occupants; 7. Ancillary Building - 4 (Fire Command Station): 2 occupants; 8. Ancillary Building - 5 (Security Post -1): 6 occupants; 9. Ancillary Building - 6 (Security Post -2): 4 occupants.
Number of Ancillary Levels (Stories):	1. Ancillary Building - 1 (Building D): 6-stories; 2. Ancillary Building - 2 (Garbage Store): 1- story; 3. Ancillary Building - 3 (Transformer Building): 1-story; 4. Ancillary Building - 4 (Fire Command Station):1-story; 5. Ancillary Building - 5 (Security Post -1): 1-story; 5. Ancillary Building - 6 (Security Post -2): 1- story.
Occupancy Type:	1. Main Building - 1 (Building A): (GF: H2 (Central fabric store), 1st Floor: H2 (Finished goods store), 2nd Floor: G2 (Garments), 3rd Floor: G2 (Garments), 4th Floor: G2 (Garments), 5th Floor: E2 (Workers dining and prayer area); 2. Main Building - 2 (Building B): Under construction; 3. Main Building - 3 (Building C): (Construction complete machine and device installation going on); 4. Ancillary Building -1 (Building D); (GF: C1, D1, G2 (Daycare, Doctor's room, embroidery section), Rest of the floor will be office); 5. Ancillary Building - 2 (Garbage Store): H2; 6. Ancillary Building - 3 (Transformer Building): K; 7. Ancillary Building - 4 (Fire Command Station): K; 8. Ancillary Building - 5 (Security Post -1): K; 9. Ancillary Building - 6 (Security Post -2): K.
Construction Type:	1. Main Building - 1 (Building A): Non-rated (Prefabricated steel frame structure with RCC decking slab and brick masonry wall); 2. Main Building - 2 (Building B): Type-1 (RCC frame structure); 3. Main Building - 3 (Building C): Non-rated (Prefabricated steel frame structure with RCC decking slab and brick masonry wall); 4. Ancillary Building -1 (Building D): Type-1 (RCC frame structure); 5. Ancillary Building - 2 (Garbage Store): Non-rated (Prefabricated steel frame structure); 6. Ancillary Building - 3 (Transformer Building): Type-1 (RCC frame structure); 7. Ancillary Building - 4 (Fire Command Station): Type-1 (RCC frame structure); 8. Ancillary Building - 5 (Security Post -1): Type-1 (RCC frame structure); 9. Ancillary Building - 6 (Security Post -2): Type-1 (RCC frame structure).
Height of Highest Occupied Floor Level Above Grade:	1. Main Building - 1 (Building A): 21.7 m (71.16 ft.); 2. Main Building - 2 (Building B): Under Construction ; 3. Main Building - 3 (Building C): 14.48 m (47.5 ft.); 4. Ancillary Building -1 (Building D): 21.7 m (71.16 ft.); 5. Ancillary Building - 2 (Garbage Store): 0 m (0 ft.); 6. Ancillary Building - 3 (Transformer Building): 0 m (0 ft.); 7. Ancillary Building - 4 (Fire Command Station); 0 m (0 ft.); 8. Ancillary Building - 5 (Security Post -1); 0 m (0 ft.); 9. Ancillary Building - 6 (Security Post -2). 0 m (0 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 exits were not protected by continuous fire rated assemblies in all floor. Unprotected windows were noticed between production areas and South-Middle stairwell at 5th, 3rd and 2nd floor, unprotected doors, windows and ventilation openings were noticed in the central fabric store and boiler room at Ground floor of Main building-1 (Building A).
Source of Findings:	Photograph: 1. Non-fire rated door at exit enclosure; 2. Unprotected window in exit enclosure, 3. Unprotected window and ventilation opening at boiler room; 4. Unprotected door and ventilation opening at central fabric store; 5. Unprotected doors and windows at central fabric store.
Suggested Plan of Action:	Provide appropriate fire resistance rated opening protection and firestop assemblies at openings in exit enclosures and hazardous room enclosures in accordance with Alliance Standard Sections 4.6 and 4.7. Provide required fire resistance rated opening protection (Door, Window, Hatch Cover etc.) at opening and penetration through fire rated walls and/or assemblies or closed the unprotected openings by fire-resistance rated barrier as per requirements. Consult a qualified fire protection engineer to design the required rated opening protection.
Suggested Deadline Date:	23 Dec 2014
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations

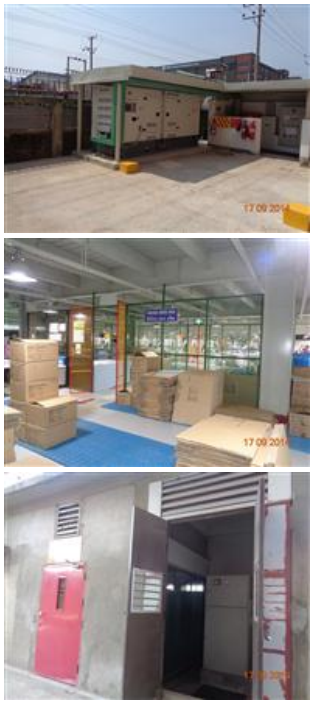




Question:	Is each floor separated with a fire-resistive rated construction barrier?
Priority Level:	High
Non-Compliance Level:	3
Description:	Typical slab thickness was 150 mm but two penetrations were noted around the BBT riser and a spear penetrations were noted near to BBT riser for future use at each floor of Main building-1 (Building A).

Source of Findings:	Photograph: Floor penetration around BBT riser and spear riser.	
Suggested Plan of Action:	Seal penetrations around BBT risers and spear one by minimum 2-hour fire rated sealing materials. Consult a qualified fire protection engineer for this purpose.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Are exit enclosures provided with fire-resistive rated construction barriers?	 
Priority Level:	High	
Non-Compliance Level:	3	
Description:	All exits were not protected by continuous fire rated assemblies in all floor. Fire rated door were noticed in most of the exits. No rated door was noticed at East-Middle stair. No barriers were noted at Ground floor level at South-Middle stair of Main building-1 (Building A) and West-Middle stair of Ancillary building -1 (Building D) .	
Source of Findings:	Photograph: 01. East-Middle exit enclosure. 02. South-Middle exit enclosure	
Suggested Plan of Action:	Provide 2-hour fire-resistive rated construction barriers at exit enclosure 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 1.0 m (39 in.). Consult a qualified fire protection engineer to design the required rated construction barriers with opening protection.	
Suggested Deadline Date:	23 Dec 2014	
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:	From visual inspection all structural members of all buildings in this factory premises were found free of damage during assessment. But main building -1 (Building A) is a not-rated high-rise structure and the highest occupiable floor of this building is located at 21.7 m (71.16 ft.). Per Alliance standard part 3 section 3.2.1 building with occupiable floor above grade level more than 20 m (65 ft) is high-rise building and section 3.6.2.4 non-rated construction shall not be allowed for high-rise building. Also non-rated high-rise buildings greater than 2 stories greater than 22,000 sq. ft. per floor are required to be sprinklered.	
Source of Findings:	Photograph: 01. Structural member of steel building; 02. Non-rated high-rise building.	

Suggested Plan of Action:	Remove the top floor of Main building – 1 (Building A) to reduce the building below the high-rise threshold. Additionally, provide automatic sprinkler protection throughout the building in accordance since the building is greater than with the Alliance Standard.
Suggested Deadline Date:	23 Dec 2014
Standard:	BNBC Part 3 Chapter 3
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Not in compliance with Alliance Standards Part 4 Section 4.5 Separation; Part 3 Section 3.4.2.1.3 Generator; 3.4.2.1.4 Oil filled transformer; 3.4.2.1.5 Storage. 01. One generator was located in open condition near fire pump. 02. No separation was noticed between HT panel room and Oil Filled Transformer room at Ancillary building-3 (Transformer building). 03. Chain-link fence separation were noticed between production area and finished goods store at 3rd floor and 2nd floor of Main building-1 (Building A)
Source of Findings:	Photograph: 01. Unprotected Generators, 02.Open finished goods store, 03. Oil filled transformer.
Suggested Plan of Action:	Separate the generators from the surrounding occupancy with a minimum 2-hour fire rated construction with 1.5-hour fire rated opening protection. Separate oil filled transformer for non-high rise building from the surrounding occupancy with a minimum 2-hour fire rated construction with 1.5-hour fire rated opening protection. Rooms used for boiler shall be separated from the surrounding occupancy with a minimum 1-hour fire rated construction with 0.75-hour fire rated opening protection. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	10 Dec 2014
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 was not available for any of the building during this assessment.
Source of Findings:	Document Review: No occupancy certificate has been shown.
Suggested Plan of Action:	Obtain occupancy certificate for each building and ancillary structure with building use from approving authority



Suggested Deadline Date:	11 Nov 2014	
Standard:	Are certificates of occupancy provided for each building or ancillary structure?	
Fire Protection Systems		
Question:	Is the building protected by an automatic sprinkler system?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Main building -1 (Building A) is 6-stories non-rated building with floor area 35,825 SF per floor and Main building – 3 (Building C) is 4-stories non-rated building with floor area 17,337 SF per floor. Automatic sprinkler system is installed only at ground floor of Main building-1 (Building A) but not as per NFPA 13. Building B when complete will be a 10-story high-rise building over 75 ft. and will require automatic sprinkler protection.	
Source of Findings:	Photograph: Existing automatic sprinkler system	
Suggested Plan of Action:	Install an automatic sprinkler system throughout Buildings A and B, designed by a qualified fire protection engineer as per Alliance Standard and NFPA 13. Any newly installed standpipe system shall be evaluated for compliance with the design pressure and flow demands of NFPA 13. Consult a qualified fire protection engineer before modify existing or installing new system. Once a compliant system is installed, adjust and install signage at required locations and on required equipment. Signage shall be comply with NFPA 13 and establish an inspection, maintenance, and testing program for the sprinkler system as per NFPA 25 documented and up to date.	
Suggested Deadline Date:	10 Mar 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:	Are sprinklers spaced and installed at the required heights in order to provided required coverage and protection?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Not in compliance. No design note was available for the existing sprinkler system. Also the specification of the sprinkler was unknown to the factory engineer. So it was unable to check the spacing and mounting height of existing sprinkler system.	
Source of Findings:	Visual Assessment: No design note and sprinkler specification was shown during this inspection.	
Suggested Plan of Action:	Install automatic sprinkler system in required spacing and height based on the commodity class and allowable height limit as per NFPA13. Assign a qualified fire protection engineer for these purposes.	

Suggested Deadline Date:	10 Mar 2015	
Standard:	Reference NFPA 13	
Question:	Are storage racks and shelves compliant based on class of commodity storage?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Sprinkler system was installed only at ground floor central fabric store of Main building –1 (Building-A). Solid shelves racks were used here for storage raw fabrics. Length and width of the solid selves racks were measured 11.4m (37.4 ft.) and 1.83 m (6 ft.).	
Source of Findings:	Photograph: Solid selves racks	
Suggested Plan of Action:	Remove all the solid selves racks from the sprinkler covered storage area and installed at list 50% open selves racks. Assign a qualified fire protection engineer for these purposes.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Reference NFPA 13 Chapter 13, 14, 15, 16, or 17	
Question:	Does the building have a Standpipe System?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Only class-II (40 mm diameter) standpipe hose stations and non-class hose stations with (25 mm diameter PVC hose) were installed inside the floor. No Class-I (65 mm diameter) hose connections were found in all required stairwells and occupiable roof of the factory buildings. Minimum pressure of 65 psi was not maintained. Further evaluation is required by the owner.	
Source of Findings:	Photograph: Class-II (40 mm diameter) standpipe hose stations inside the floor.	
Suggested Plan of Action:	Modify or install the standpipe System (Class-I and class-II) to meet the requirements of Alliance standard and NFPA 14. Any newly installed standpipe system shall be evaluated for compliance with the design pressure and flow demands of NFPA. Consult a qualified fire protection engineer before modify existing or installing new system.	
Suggested Deadline Date:	23 Dec 2014	
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:	There is a fire pump in this factory and this fire pump directly connected with the standpipe and sprinkler system. This standpipe is now connected at Main Building-1 (Building A): 6-stories; Main Building-3 (Building C): 4-stories, Ancillary Building-1 (Building D):6-stories by six (06) riser and also with the sprinkler system at ground floor store of Main building-1(Building-A). Main Building-2 (Building B) is under constructed proposed 10-stories building. As per factory management the standpipe and sprinkler system of this building will also connect with the same fire pump. No design and hydraulic calculation were done for standpipe system, sprinkler system and pump selection. .
Source of Findings:	Photograph: Fire pump
Suggested Plan of Action:	Assign a qualified fire protection engineer to re-calculate the capacity of existing fire pump in accordance with NFPA13 and NFPA14 for the connected fire protection systems. The adequacy of stored source of water shall be checked to meet the demands per NFPA 22. Documentation of all drawings, design, hydraulic calculation, and selection of fire protection system shall be submitted to Alliance for review. If the capacity of existing fire pump is not sufficient, modify the existing one or install a new 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:	23 Dec 2014
Standard:	Alliance Standard Part 5 Fire Protection Systems

Question:	Are hangers, bracing, and restraints properly installed and supporting the system piping?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Sprinkler system piping were only fitted with vertical J-hook hanger, no angular or sway bracing were noted during inspection.
Source of Findings:	Photograph: Sprinkler system piping fitted with vertical J-hook hanger.
Suggested Plan of Action:	The hangers, bracing, and restraint of existing sprinkler piping system shall be modified to meet the requirements of NFPA 13 chapter 9. When installed new system the hangers, bracing, and restraint of sprinkler piping system shall

	meet the requirement of NFPA 12 Chapter 9. Consult a qualified fire protection system designer for that modification.	
Suggested Deadline Date:	10 Mar 2015	
Standard:	Reference NFPA 13 Chapter 9 Hanging, Bracing, and Restraint of System Piping.	
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 existing automatic sprinkler systems were not connected with the control panel and not electrically supervised.	
Source of Findings:	Visual Assessment: Valves of automatic sprinkler systems were not connected with fire alarm control panel during this inspection.	
Suggested Plan of Action:	Design and install an approved monitoring system for all valves controlling automatic sprinkler systems, fire pumps, and water supply systems. The valves shall be electrically supervised by a listed fire alarm system control unit as per Alliance Standard and NFPA 13 chapter 7 System requirements. Consult a qualified fire protection engineer for these purposes.	
Suggested Deadline Date:	10 Mar 2015	
Standard:	Reference Alliance Standard Part 5 Section 5.3.5 Supervision and Alarms.	
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Five fire department connections were installed in the factory premises but identification marking was not posted during visit.	
Source of Findings:	Photograph: Fire department connections without identification marking.	
Suggested Plan of Action:	Provide identification mark for fire department connections.	
Suggested Deadline Date:	28 Oct 2014	
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:	Only the inspection checklists with the monthly dates on each extinguisher are being verified by the fire safety officer. Not all of the requirements of NFPA 10 are being checked. 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: Check list of extinguisher	
Suggested Plan of Action:	Establish an inspection, testing, and maintenance program for all fire extinguishers. Program shall be comply with the requirements of NFPA 10 Chapter 7.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	NFPA 10 Chapter 7	
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 and record of inspection, maintenance and testing of the sprinkler system were found during inspection.	
Source of Findings:	Document Review: No inspection, maintenance, and testing plan or record have shown.	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the sprinkler system. Program needs to comply with the requirements of NFPA 25.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Reference NFPA 25 Chapter 5 Sprinkler Systems Table 5.1.1.2	
Question:	Are identification signs for the sprinkler system installed at the required locations?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	No identification signs for the required components of the existing sprinkler system were found during inspection.	
Source of Findings:	Visual Assessment: No identification signs for sprinkler system was found.	

Suggested Plan of Action:	Once a compliant system is installed, adjust and install signage at required locations and on required equipment. Signage shall be comply with NFPA 13.	
Suggested Deadline Date:	10 Mar 2015	
Standard:	Reference NFPA 13	
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:	1	
Description:	No audible device was connected with the existing sprinkler system during inspection.	
Source of Findings:	Visual Assessment: No audible device was found connected with the sprinkler system during this assessment	
Suggested Plan of Action:	Install an approved audible device connected to every automatic sprinkler system, which will activated by water flow equal to the flow of one sprinkler. Where a fire alarm system is installed, activation of the water flow need to be activated the fire alarm system. These arrangement shall be design and implement as per NFPA 13 chapter 7 System requirements. Assign a qualified fire protection engineer for these purposes.	
Suggested Deadline Date:	10 Mar 2015	
Standard:	Reference Alliance Standards Part 5 Section 5.3.5.2 Alarms.	
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:	Only inspection records of the standpipe and hose system was available but not as per NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2.	
Source of Findings:	Photograph: Inspection checklist of standpipe and hose systems	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the standpipe and hose system. Program shall comply with the requirements of NFPA 25.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	

Priority Level:	Low	
Non-Compliance Level:	1	
Description:	No documented maintenance or testing procedures of the fire pump were available during assessment.	
Source of Findings:	Document Review: No document has been shown during inspection	
Suggested Plan of Action:	Establish an inspection, testing, and maintenance program for the fire pump in compliance with NFPA 25. Workers shall be trained in the proper operation of the pump.	
Suggested Deadline Date:	10 Mar 2015	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		
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:	3	
Description:	Exit discharges of South-Middle stair of Main building-1 (Building A) were terminated inside the ground floor in front of central fabrics store non-rated opening without discharge directly to the exterior of the building.	
Source of Findings:	Photograph: Exit discharge of South-Middle stair of Main building-1 (Building A)	
Suggested Plan of Action:	Interior exit stairways shall be terminate to a rated exit passageway or outside the building. Construct minimum 2-hour fire rated (walls, ceiling and floor) exit passageway with minimum 1.5-hour rated opening protection (door, window, etc.) from the stair at ground floor to the exterior of the building. This exit passageway shall not be used for any other purpose. The rated assembly or sprinkler system shall be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	

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 were unlocked in the direction of egress only during working hour. Hasps, locks, other locking devices were present on doors.	
Source of Findings:	Photograph: Locking provision in door	
Suggested Plan of Action:	Keep the doors lock free in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices shall be removed where available.	
Suggested Deadline Date:	14 Oct 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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:	Exit discharges of South-Middle stair of Main building-1 (Building A) were terminated inside the ground floor in front of central fabrics store non-rated opening without discharge directly to the exterior of the building.	
Source of Findings:	Photograph: Exit discharge of South-Middle stair of Main building-1 (Building A)	
Suggested Plan of Action:	Interior exit stairways shall be terminate to a rated exit passageway or outside the building. Construct minimum 2-hour fire rated (walls, ceiling and floor) exit passageway with minimum 1.5-hour rated opening protection (door, window, etc.) from the stair at ground floor to the exterior of the building. This exit passageway shall not be used for any other purpose. The rated assembly shall be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
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 were provided on only open sides of some of the flight of all stairways of all buildings. The width of East-Middle, East-Middle stairs of Main building-1 (Building A) and West-Middle stair of Main building-3 (Building C) was measured 2.7m (106 in.), 2.9m (114 in.) and 2.7m (106 in.) but no intermediate handrails were provided. Also the spacing of vertical members of some handrails were measured 965mm (38 in.).	
Source of Findings:	Photograph: 01. Handrail on open side of stair; 02. No intermediate handrail	
Suggested Plan of Action:	Install handrails on the both side of the stairs and intermediate handrail when the stair width exceeds 2.2m (87 in.) A minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread need to be maintained when installing new handrails. The spacing between vertical members will not exceed 200 mm (8 inch).	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 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:	2	
Description:	Occupant loads were not posted for every assembly and production floor in a conspicuous space near the main point of egress.	
Source of Findings:	Visual Assessment: No signage contain occupant load was found during inspection.	
Suggested Plan of Action:	Post the occupant load for every assembly and production floor in a conspicuous space near the main exit or exit access doorway for the space. .	
Suggested Deadline Date:	14 Oct 2014	
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:	2	
Description:	No testing plan and records were available during this visit.	
Source of Findings:	Document Review: No record of testing and maintenance has been shown.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all egress lights are verified at least once per year and documented. If battery-	

	operated are used, these lights shall be tested on a monthly basis. Functional testing of emergency powered lights shall be provided for a minimum 90 min once per year.	
Suggested Deadline Date:	28 Oct 2014	
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:	Illuminated exit signs were placed only at entrances to exits of buildings with no additional exit signs placed inside the floor (where required).	
Source of Findings:	Visual Assessment: No additional exit sign has been shown during this assessment.	
Suggested Plan of Action:	Install illuminated exit signs with backup power and continuous graphics 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.	
Suggested Deadline Date:	23 Dec 2014	
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:	Threshold were found in many of the exit without beveled slope and marking.	
Source of Findings:	Photograph: Threshold without beveled slop and marking	
Suggested Plan of Action:	Remove the threshold or provide a proper slope on both sides of the threshold mark with additional signage or floor markings.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces	
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:	2	
Description:	No testing plan and records were available during visit.	
Source of Findings:	Document Review: No testing plan and records were available during visit.	
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 and documented. If battery operated signs are used, these signs 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:	28 Oct 2014	
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:	1	
Description:	No stair designation signs were posted at any of the stair.	
Source of Findings:	Visual Assessment: Stair designation sign was 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 indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	
Suggested Deadline Date:	28 Oct 2014	
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:	3	
Description:	40 out of 911 workers have taken training from Fire Service and Civil Defence authority on 15-16 June 2014. Certificate issue is under process.	
Source of Findings:	Photograph: Attendants sheet of Fire Service And Civil Defence Training.	

Suggested Plan of Action:	Provide training for the required number of people (25 % of total workers as per Fire Service and Civil Defence) certified in firefighting, first-aid, and rescue training by the appropriate authority.	
Suggested Deadline Date:	10 Mar 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:	1	
Description:	The factory has not received the Alliance Safety Training Curriculum at the time of the assessment and has not conducted safety training curriculum per Alliance Standards Part 13.	
Source of Findings:	Document Review: No document was shown during inspection.	
Suggested Plan of Action:	Training programs need to be implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Suggested Deadline Date:	10 Mar 2015	
Standard:	Alliance Standards Part 13	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Fire Department pre-planning has not been completed.	
Source of Findings:	Document Review: No pre-plan has been developed	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defence.	
Suggested Deadline Date:	28 Oct 2014	
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:	1	
Description:	No hot-work permit program has been established. During inspection no hot-work operation was ongoing in the facility.	

Source of Findings:	Document Review: No document was shown 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:	10 Mar 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:	1
Description:	Trade license valid up to 30 June 2015, Fire license valid up to 30 June 2015, Apply for BERC waiver certificate and Boiler license on 14 November.
Source of Findings:	Photograph: 01. Valid trade license, 02. Valid fire license.
Suggested Plan of Action:	Obtain up to date all applicable permits and license including boiler license, BERC waiver certificate of generator.
Suggested Deadline Date:	25 Nov 2014
Standard:	Alliance Standard Part 13 Human Element Programs