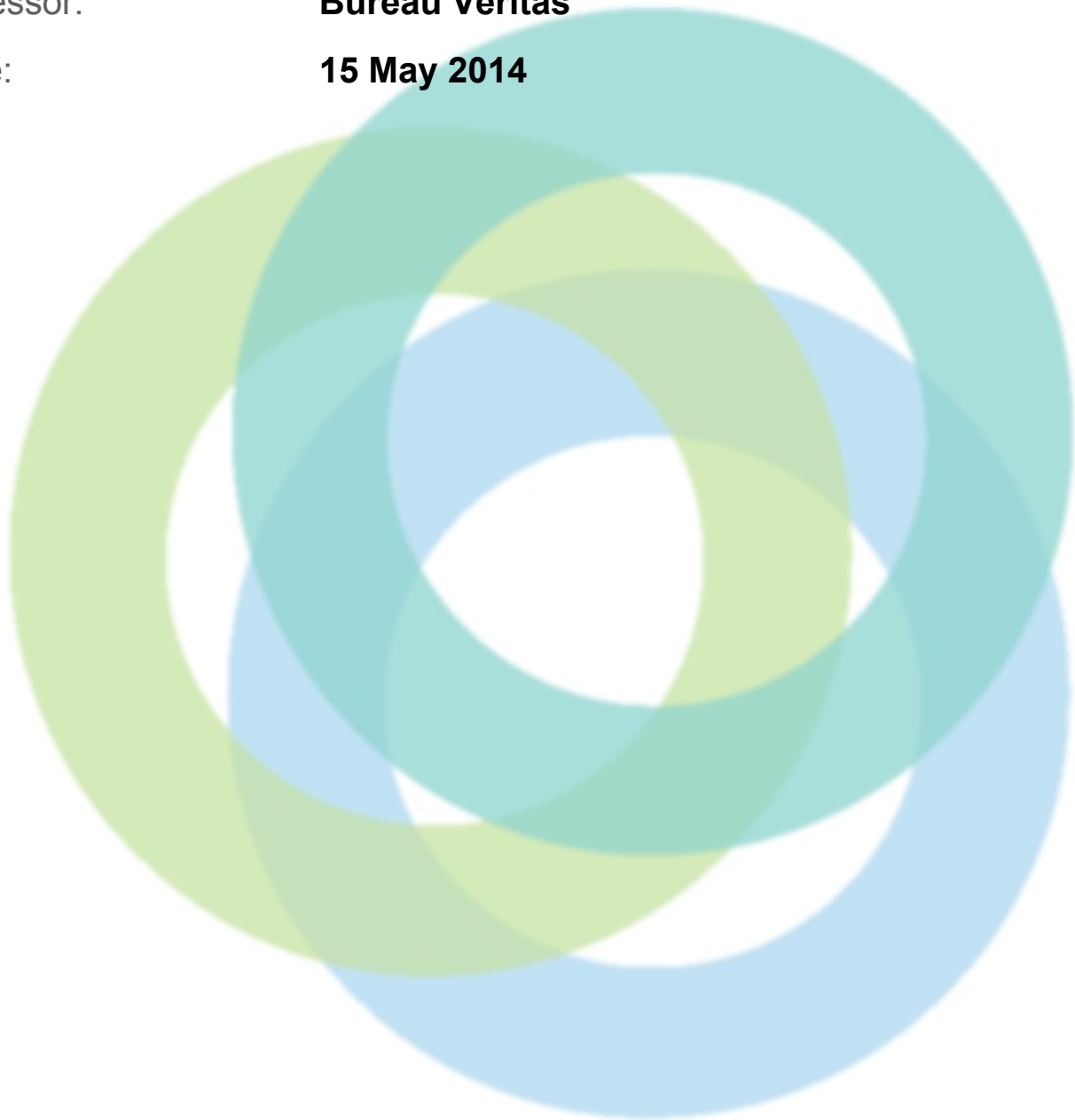


# INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **N.K.K KNITWEAR LTD**  
Address: **KUTUBALI, FATULLAH, NARAYANGANJ, DHAKA**  
**Narayangonj Dhaka Bangladesh**  
Assessor: **Bureau Veritas**  
Date: **15 May 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](http://www.bangladeshworkersafety.org).





## GENERAL INFORMATION

General Information	
Factory Name:	N.K.K KNITWEAR LTD
Address:	KUTUBALI, FATULLAH, NARAYANGANJ, DHAKA Narayangonj Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Narayangonj
Zip Code:	1420
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-18-2014
Final Report Date:	06-28-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 3 buildings in the factory premises out of which one is main building and two are ancillary buildings. The buildings are named as: 1) Eight story RCC Main Building (One eight story building and one six story building are connected by expansion joint), 2) Single story pre-fabricated boiler, compressor & wastage room, 3) Single story pre-fabricated generator room.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Eight story RCC main building, Building height (Highest occupied floor level): 22.56 m or 74.00 ft, [Height up to roof: 25.61 m or 84.00 ft], Stories above grade: 8, Stories below grade: 0, Occupied levels: 8, 2) Single story pre-fabricated boiler, compressor & wastage room, Building height (Highest occupied floor level): 15 cm or 0.5 ft, [Height up to roof: 4.00 m or 13.12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 3) Single story pre-fabricated generator room. Building height (Highest occupied floor level): 15 cm or 0.5 ft [Height up to roof: 4.00 m or 13.12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Approximate Building Area (SF):	Total area of all buildings in the factory premises: 123445 sft. Building wise breakdown as follows: 1) Eight story RCC Main Building: 118550 sft, (Ground floor: 16995 sft, 1st floor: 16995 sft, 2nd floor: 16995 sft, 3rd floor: 16995 sft, 4th floor: 16995 sft, 5th floor: 16995 sft, 6th floor: 8290 sft, 7th floor: 8290 sft. 2) Single story pre-fabricated boiler, compressor & wastage room: 1950 sft, 3) Single story pre-fabricated generator room: 2945 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: 1) Eight story RCC Main Building: Eight story part finished in 2007 and six story part finished in 1996.



Date of Last Building Renovation/Addition:	No record for date of renovation or addition was found from factory personnel.
Ancillary Structures in Complex:	1) Single story pre-fabricated boiler, compressor & wastage room, 2) Single story pre-fabricated generator room.
Approximate Ancillary Structures Area (SF):	1) Single story pre-fabricated boiler, compressor & wastage room: 1950 sft, 2) Single story pre-fabricated generator room: 2945 sft.
Number of Occupants:	Total no. of occupant: 1173. 1) Eight story RCC Main Building: 1170, (Ground floor: 62, 1st floor: 191, 2nd floor: 38, 3rd floor: 258, 4th floor: 253, 5th floor: 252, 6th floor: 78, 7th floor: 38), 2) Single story pre-fabricated boiler, compressor & wastage room: 2, 3) Single story pre-fabricated generator room: 1.
Number of Ancillary Levels (Stories):	1) Single story pre-fabricated boiler, compressor & wastage room: Building height (Highest occupied floor level): 15 cm or 0.5 ft, [Height up to roof: 4.00 m or 13.12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 2) Single story pre-fabricated generator room: Building height (Highest occupied floor level): 15 cm or 0.5 ft [Height up to roof: 4.00 m or 13.12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	1) Eight story RCC Main Building: Ground floor: H2 (Storage), D1 (Doctors chamber), B2 (Day care), K1 (Parking, Pump room, Substation), 1st floor: H2 (Accessories store), G2 (Spot removing room), F1 (Office), 2nd floor: F1 (Office), E4 (Prayer room, Dining, Training room), H2 (Storage), 3rd floor: G2 ( Finishing section), H2 (Storage), 4th floor: G2 (Sewing section, Finishing), 5th floor: G2 (Sewing section, Finishing), 6th floor: G2 (Cutting), 7th floor: G2 (Cutting), H2 (Storage), 2) Single story pre-fabricated boiler, compressor & wastage room: K1 (Boiler & compressor), H2 (Storage), 3) Single story pre-fabricated generator room: K1 (Generator).
Construction Type:	1) Eight story RCC Main Building: Type 1, 2) Single story pre-fabricated boiler, compressor & wastage room: Non-rated, 3) Single story pre-fabricated generator room: Non-rated.
Height of Highest Occupied Floor Level Above Grade:	1) Eight story RCC Main Building: 22.56 m or 74.00 ft, 2) Single story pre-fabricated boiler, compressor & wastage room: 15 cm or 0.5 ft above grade, 3) Single story pre-fabricated generator room: 15 cm or 0.5 ft above grade.



## ASSESSMENT FINDINGS

### Fire Protection Construction

Question:	Certificates of Occupancy for each building have been issued and are on file.	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Occupancy certificates available for the building from PWD, Narayanganj sub-division-1.	
Source of Findings:	Photograph: Occupancy certificates from PWD, Narayanganj sub-division-1.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Are certificates of occupancy provided for each building or ancillary structure?	
Question:	Is the fire resistance materials of structural members in good condition and free of damage?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	There was no damage found in the fire resistance materials of the structural members in the buildings.	
Source of Findings:	Visual Assessment: According to our visual assessment we didn't find any structural damage in the buildings.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	BNBC Part 3 Chapter 3	



Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	On ground floor, high-window at substation beside car parking and high-window at central store room are not fire protected.
Source of Findings:	Photograph: On ground floor, high windows of central store and high-window at substation beside car parking are not fire protected.
Suggested Plan of Action:	Protect penetration and close all windows and other openings on all the fire rated walls across the entire premises as per the Alliance Standard.
Suggested Deadline Date:	09 Sep 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:	The slab thickness is 6 inches according to structural drawing. The fire resistance of a 6 inch RCC slab is 2.5 hours. From physical measurement, slab thickness was found to be 7.5 inches with finishing, but slabs are penetrated for installing plumbing and sanitary pipes. The penetrations are not sealed or protected following the requirement of Alliance Standard.
Source of Findings:	Document Review: Slabs are penetrated for installing plumbing and sanitary pipes.
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between floors following Table 4.4.1 of Alliance Standard. Consult a qualified fire protection engineer to design the rated construction barriers.
Suggested Deadline Date:	09 Sep 2014
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:	There are 4 spot removing rooms on the 1st, 3rd, 4th and 5th floors with glass and aluminum partitions which are non-rated.





Source of Findings:	Photograph: Spot removing rooms with glass and aluminum partitions.	
Suggested Plan of Action:	Existing non-rated partitions must be removed and provided with 1 hr fire-resistive rated construction barriers with 0.75 hr certified fire rated opening at spot removing room. Consult a qualified fire protection engineer to design the required rated construction barrier.	
Suggested Deadline Date:	02 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:	There are 3 exit stairways from the 5th floor to the ground floor and 2 exit stairways from the 7th floor to the 6th floor. Only one stair enclosure (middle of the building) is fire resistive with fire doors from the ground floor to the 5th floor. Other doors were collapsible type. Doors in these exit enclosures must be 1.5 hour rated as per the Alliance Standard.	
Source of Findings:	Photograph: Doors in the means of egress are collapsible type.	
Suggested Plan of Action:	Provide 1.5 hr certified fire rated door in all exit enclosures. Consult a qualified fire protection engineer to design the required rated construction barriers.	
Suggested Deadline Date:	09 Sep 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Are shafts provided with the minimum fire-resistance rating?	
Priority Level:	High	
Non-Compliance Level:		
Description:	No shaft is available in the building.	
Source of Findings:	Visual Assessment: No shaft was found.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference Alliance Standards Part 4 Section 4.5.7.1 through 4.5.7.3	
Question:	Fire dampers installed on air-conditioning and ventilation ducts appear to be in good condition and operational.	
Priority Level:	Medium	





Non-Compliance Level:	
Description:	Not applicable because air-conditioning or ventilation duct are not installed.
Source of Findings:	Visual Assessment: During site tour no air-conditioning or ventilation duct was found.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations
Question:	If the building contains a vertical opening known as an atrium, have provisions been made to comply with Alliance Standard 3.7?
Priority Level:	Medium
Non-Compliance Level:	
Description:	No atrium is available in main building.
Source of Findings:	Visual Assessment: No atrium was found.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Reference Alliance Standards Section 3.7 Atrium
<b>Fire Protection Systems</b>	
Question:	Is the building protected by an automatic sprinkler system?
Priority Level:	High
Non-Compliance Level:	
Description:	Height of the highest occupied level of the main building is 22.56m (74.00 ft) which is shorter than 23 m (75 ft) above the finished grade in accordance with the requirements of NFPA 13 as stated in Alliance Standard Section 5.3. So, automatic sprinkler system is not required.
Source of Findings:	Visual Assessment: During site tour, the height of the buildings were measured and it was realized that sprinkler system is not required in the buildings.
Suggested Plan of Action:	



Suggested Deadline Date:		
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:	Design criteria of sprinkler system?	
Priority Level:		
Non-Compliance Level:		
Description:	Automatic sprinkler system is not required for the building, design criteria of sprinkler system is not applicable.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Provide the criteria used in the design of the sprinkler system.	
Question:	Commodity Class used for the design of the sprinkler system?	
Priority Level:		
Non-Compliance Level:		
Description:	As an automatic sprinkler system is not required for the building, commodity class used for the design of sprinkler system is not applicable.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 5	
Question:	Occupancy Classification used for the design of the sprinkler system?	
Priority Level:		
Non-Compliance Level:		
Description:	As an automatic sprinkler system is not required for the building, occupancy classification used for the design of sprinkler system is not applicable.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of		



Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 5	
Question:	Are inspection, maintenance, and testing procedures of the sprinkler system documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 13	
Question:	Sprinkler system piping is free of mechanical damage, leakage, and corrosion.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	



Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	NFPA 25 Chapter 5 Section 5.2.2 Pipe and Fittings	
Question:	Sprinkler system piping is not subjected to external loads by materials either resting on the pipe or hung from the pipe?	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 25 Chapter 5 Section 5.2.2.2	
Question:	Are hangers, bracing, and restraints properly installed and supporting the system piping?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 9 Hanging, Bracing, and Restraint of System Piping.	
Question:	Sprinklers do not show signs of leakage, are free of corrosion, have not been painted, and are not physically damaged.	
Priority Level:	Medium	



Non-Compliance Level:			
Description:	Not applicable because an automatic sprinkler system is not required for the building.		
Source of Findings:	Visual Assessment: Sprinkler system is not required.		
Suggested Plan of Action:			
Suggested Deadline Date:			
Standard:	Reference NFPA 25 Chapter 5		
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:			
Description:	Not applicable because an automatic sprinkler system is not required for the building.		
Source of Findings:	Visual Assessment: Sprinkler system is not required.		
Suggested Plan of Action:			
Suggested Deadline Date:			
Standard:	Reference Alliance Standard Part 5 Section 5.3.5 Supervision and Alarms.		
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:			
Description:	Not applicable because an automatic sprinkler system is not required for the building.		
Source of Findings:	Visual Assessment: Sprinkler system is not required.		
Suggested Plan of Action:			
Suggested Deadline Date:			
Standard:	Reference Alliance Standards Part 5 Section 5.3.5.2 Alarms.		
Question:	Are sprinklers spaced and installed at the required heights in order to provided		



	required coverage and protection?	
Priority Level:	High	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 13	
Question:	Are storage racks and shelves compliant based on class of commodity storage?	
Priority Level:	High	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 13, 14, 15, 16, or 17	
Question:	Aisles in storage areas are free of storage based on design criteria used for the sprinkler system.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		



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:		
Description:	Not applicable because an automatic sprinkler system is not required for the building.	
Source of Findings:	Visual Assessment: Sprinkler system is not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference Alliance Standards Part 5 Section 5.3.6.1 Storage Clearance	
Question:	Does the building have a Standpipe System?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	The height of the highest occupied floor of the main building is 22.56 m (74.00 ft), which is more than 10 m (33 ft) above grade, therefore a class-III standpipe system needs to be installed throughout the main building as per Alliance Standard. There is no standpipe system in the main building that meets NFPA requirements. There is a standpipe system in the main building but there is no hydraulic design for the system. Class-II standpipe hose connections are (40 mm) installed on the floors. Available water pressure was satisfactory.	
Source of Findings:	Photograph: Components of standpipe system were observed.	
Suggested Plan of Action:	Install a NFPA-complaint standpipe system at required locations designed by a qualified fire protection engineer. All standpipe system installations and hydraulic calculations shall be submitted to the Alliance for review prior to commencement of installation according Alliance Standard.	
Suggested Deadline Date:	09 Sep 2014	
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2	



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 installed standpipe and hose are not documented and up to date as per NFPA 25. Only hose pipe inspection record available.
Source of Findings:	Document Review: No document regarding inspection, maintenance and testing procedure of standpipe and hose system was found as per NFPA requirements among the documents shown by the factory personnel., Photograph: Hose pipe inspection record.
Suggested Plan of Action:	Install a NFPA-compliant class III standpipe system at required locations designed by a qualified fire protection engineer. Then establish an inspection, maintenance, and testing program for the standpipe and hose system. Program must comply with NFPA requirements.
Suggested Deadline Date:	02 Dec 2014
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:	2
Description:	A NFPA-compliant class III standpipe system is not installed in the building. Signage for the available standpipe system is not installed.
Source of Findings:	Visual Assessment: No signage for the available standpipe system was found in the building.
Suggested Plan of Action:	Install a NFPA-compliant standpipe system at required locations designed by a qualified fire protection engineer. Install required identification signs at the noted locations.
Suggested Deadline Date:	29 Jul 2014
Standard:	Reference NFPA 14 Chapter 6
Question:	Standpipe system piping is free of mechanical damage, leakage, and corrosion?
Priority Level:	Medium
Non-Compliance Level:	2





Description:	There is no damage, leakage, or corrosion in the available standpipe system pipes at any locations, but a Class-III standpipe system is not installed throughout the main building according to NFPA 14.
Source of Findings:	Visual Assessment: Mechanical damage, leakage and corrosion were not found in the available standpipe system.
Suggested Plan of Action:	
Suggested Deadline Date:	02 Dec 2014
Standard:	NFPA 25 Chapter 6 Standpipe and Hose Systems
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	A fire department (Siamese) inlet connection is not provided as per the Alliance Standard. A connection is currently being installed.
Source of Findings:	Photograph: Fire department (Siamese) inlet connection work is in progress.
Suggested Plan of Action:	Install fire department connections where required and in compliance with the Standard. Fire department outlet connections shall be provided to allow fire department pumper vehicles to draw water from ground-level or underground water storage tanks. Connections shall match the Fire Service and Civil Defense hose thread standard.
Suggested Deadline Date:	02 Dec 2014
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections
Question:	Does the building have a fire pump?
Priority Level:	High
Non-Compliance Level:	3
Description:	There is a fire pump dedicated for fire fighting. The pump is connected to an alternative power source. However, it does not comply with the requirements of Alliance Standards and NFPA 20. The capacity of the water reservoir is sufficient.
Source of Findings:	Photograph: Building has a designated fire pump.
Suggested Plan of Action:	Install a pump dedicated for fire fighting or fire protection following NFPA requirements. 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. Acceptance testing of the installation shall be in accordance with NFPA testing requirements.





	Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance. This pump is to be connected to alternative power source (generator) and connected with an automatic transfer switch (ATS).
Suggested Deadline Date:	09 Sep 2014
Standard:	Alliance Standard Part 5 Fire Protection Systems
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?
Priority Level:	Low
Non-Compliance Level:	2
Description:	Inspection, maintenance and testing procedures of the fire pump are documented and up to date but not according to NFPA 25.
Source of Findings:	Photograph: Inspection and maintenance record of fire pump.
Suggested Plan of Action:	
Suggested Deadline Date:	02 Dec 2014
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps
Question:	Are portable fire extinguishers installed throughout the building at required locations and mounted at the correct height?
Priority Level:	Medium
Non-Compliance Level:	
Description:	Portable fire extinguishers are installed throughout the building at required locations and mounted at the correct height in accordance with Alliance Standard, Part-5, Section-5.6.2.
Source of Findings:	Photograph: Fire Extinguishers are mounted at correct height.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	BNBC Part 4 Section 4.10 and NFPA 10
Question:	Portable fire extinguishers have been selected based on potential fire class and hazards?
Priority Level:	Medium
Non-Compliance Level:	





Description:	Portable fire extinguishers are used according to potential fire class and hazards.	
Source of Findings:	Visual Assessment: Fire extinguishers were found placed based on fire class and hazards.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	NFPA 10 Chapter 5	
Question:	Fire extinguishers are inspected, tested, and maintained as required.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Fire extinguishers are inspected, tested and maintained in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section 13.10.3.	
Source of Findings:	Photograph: Inspection and maintenance record of fire extinguisher.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	NFPA 10 Chapter 7	
Question:	Are there any other fire suppression systems installed within the building?	
Priority Level:		
Non-Compliance Level:		
Description:	No other fire suppression systems are installed within the building.	
Source of Findings:	Visual Assessment: No other fire suppression system was found.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:		
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:	2
Description:	An automatic fire alarm and detection system is available in the factory. But currently there is no monitoring company in Bangladesh. Fire service and civil defense is not also capable of monitoring fire alarm and detection systems of the factories.
Source of Findings:	Photograph: No central station for monitoring service was found.
Suggested Plan of Action:	Arrange for direct connection of the fire alarm system to a central monitoring station or Fire Service and Civil Defense as per Alliance Standard. Until that time that monitoring can be set up, arrange a monitoring system using own central detection system and personnel. A person shall be assigned to contact the fire department in the event of fire alarm activation. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.
Suggested Deadline Date:	15 Aug 2014
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring
Question:	Trouble or alarm notifications were not indicated on the fire alarm control panel.
Priority Level:	High
Non-Compliance Level:	
Description:	Trouble or alarm indication is available on control panel.
Source of Findings:	Photograph: Trouble or alarm indication was noticed on the control panel.
Suggested Plan of Action:	
Suggested Deadline Date:	
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:	
Description:	Pull stations, smoke detectors, visual and audible devices are placed where required.
Source of Findings:	Photograph: Notification and initiation devices for the fire alarm system installed sufficiently at required locations.





Suggested Plan of Action:	
Suggested Deadline Date:	
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
<b>Means of Egress</b>	
Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.
Priority Level:	High
Non-Compliance Level:	
Description:	Maximum occupant load on 3rd floor of main building was found 258 at the time of audit. The area per person computed is 65.87 sft which is greater than required in Alliance standard (25 sft per occupant).
Source of Findings:	Visual Assessment: Occupant loads in any floor of any building in the premises did not exceed the capacity of available means of egress.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load
Question:	Occupied roofs are provided with the minimum number of exits required as a story.
Priority Level:	High
Non-Compliance Level:	
Description:	Two exits are available for occupied roofs.
Source of Findings:	Visual Assessment: Two exits are available.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standards Part 6 Section 6.6 Number of Means of Egress



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:		
Description:	Area of 6th floor is 8290 sft where the roof area of 5th floor is 16995 sft. Hence rest of area can be consider as occupied roof where parapet wall is provided with sufficient height.	
Source of Findings:	Photograph: Roofs are provided with 45 inch high parapet wall.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:	3	
Description:	No occupant loads are posted in any buildings near the main point of egress.	
Source of Findings:	Visual Assessment: Occupant loads are not posted in any buildings near the main point of egress.	
Suggested Plan of Action:	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	
Suggested Deadline Date:	24 Nov 2014	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
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:		
Description:	The aisles satisfy the requirement of minimum width and total width for occupant load based on occupancy type as per Alliance Standard Part 6 Section 6.5.1 BNBC Part 4 Section 3.5.1.	
Source of Findings:	Photograph: No obstruction was found on aisles. From calculation total width was found sufficient.	
Suggested Plan of		



Action:		
Suggested Deadline Date:		
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:		
Description:	The path of egress along the means of egress is not reduced at any point along the path of travel. Aisle, exit door and stair widths comply the requirements of Alliance Standard Part 6 Section 6.5.4 or BNBC Part 4 Table 4.3.2.	
Source of Findings:	Visual Assessment: The path of egress is not reduced at any point and the capacity is sufficient.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	
Question:	Means of egress have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.).	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	The minimum ceiling height along the means of egress is more than 2.3 m (7 ft 6 in.) and the minimum height at projection is more than 2.03 m (6 ft 8 in.).	
Source of Findings:	Visual Assessment: Ceiling height was measured on sample basis.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.3 Headroom	
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:	
Description:	Exit discharge is directly to the exterior of the building and does not reenter a building.
Source of Findings:	Visual Assessment: On visual inspection, it was observed that exit discharge meets the exterior of the building.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.
Question:	Travel distance to reach an exit does not exceed the maximum distance allowed by Occupancy Type.
Priority Level:	High
Non-Compliance Level:	
Description:	Maximum travel distance to exit is within 45 m. Automatic fire detection system, portable fire extinguisher and standpipe system are not provided in accordance with Alliance Standard. Yet, travel distance does not exceed the allowable limit 45 m set by Alliance Standard Part 6 Section 13 and BNBC Part 4 Section 3.15.1.
Source of Findings:	Visual Assessment: Travel distance based on occupancy type satisfies the Alliance Standard.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 13 Travel Distance and BNBC Part 4 Section 3.15.1
Question:	Exit access corridors serving an occupant load exceeding 30 are separated by walls having a fire-resistance rating of 1 hr.
Priority Level:	High
Non-Compliance Level:	
Description:	No exit access corridor is available in the buildings.
Source of Findings:	Visual Assessment: No exit corridor was found.
Suggested Plan of Action:	



Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3 and Part 4 Section 4.5. Does not apply if an automatic sprinkler system is installed throughout the building.	
Question:	Interior finishes for means of egress meet the rating requirements for Class A, B and C materials.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	The interior finish of the means of egress is of plaster and non-combustible paints.	
Source of Findings:	Visual Assessment: Interior finishes for means of egress were observed during site tour.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.2 Interior Finish	
Question:	Exits are limited to Class A and Class B interior materials.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Exits are made of brick walls.	
Source of Findings:	Visual Assessment: Interior materials of exits were observed during site tour.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.2 Interior Finish	
Question:	The number of means of egress from any floor or story is not less than 2 except where a single exit is permitted or where a greater number is required.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Highest occupant load on 3rd floor of main building is 258 nos and there are 3 emergency exits in each floor, which is sufficient. Two exits are also visible in other ancillary buildings which satisfy Alliance standard Part 6 Section 6.6.	



Source of Findings:	Visual Assessment: Number of emergency exit doors were counted during audit.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.6 Number of Means of Egress	
Question:	The number of means of egress from any floor or story is not less than 3 when the occupant load exceeds 500 per story and not less than 4 when the occupant load exceeds 1000 per story.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Highest occupant load on 3rd floor of main building is 258 and there are 3 emergency exits on each floor, which is sufficient.	
Source of Findings:	Photograph: Yellow marked area are the location of stair of main building.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.6 Number of Means of Egress	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	All paths of egress were not provided with compliant means of illumination. Illuminated exit signs are not placed at all required locations.	
Source of Findings:	Photograph: All paths of egress were not provided with compliant means of illumination.	
Suggested Plan of Action:	Install appropriate means of illumination at the noted locations. The source of illumination shall provide not less than 50 lux at the illuminated surface with a of not less than 0.5. Approved self-luminous signs, which provide evenly illuminated letters having a minimum luminance of 0.2cd/m2, may also be used.	
Suggested Deadline Date:	02 Dec 2014	
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:	Means of egress are free from impediments, obstructions, and stored materials.
Priority Level:	High
Non-Compliance Level:	
Description:	Means of egress are free from impediments, obstructions, and stored materials in the buildings.
Source of Findings:	Visual Assessment: Means of egress were found free.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability
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:	3
Description:	Record of verifying emergency power for means of egress illumination was not found as required in accordance with Alliance Standards.
Source of Findings:	Document Review: No relevant document found.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all 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:	30 Jul 2014
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting
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:	Some of the doors are collapsible types. Each collapsible door has a locking arrangement at egress locations.






Source of Findings:	Photograph: Collapsible gates with hasp and lock.
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices at the noted locations. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. Turning a door handle and disengaging a lock is considered two motions. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons. The re-entry provisions of Section 6.8.3 must be met.
Suggested Deadline Date:	01 Aug 2014
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:	Door widths are more than 0.8 m, but all doors along the path of egress (i.e. doors leading to staircase) are not fire doors and do not have ratings as required. Among 22 doors, 16 doors in the means of egress are collapsible types which are not fire rated.
Source of Findings:	Photograph: Collapsible type gate in the means of egress.
Suggested Plan of Action:	Provide 1.5 hr fire protective opening assemblies in 2 hr rated exit enclosures. Exits connecting three or fewer stories shall be enclosed with a minimum 1 hr fire-resistance rating. Exits connecting four or more stories shall be enclosed with a minimum 2-hr fire-resistance rating. Exits shall be enclosed with the same fire-resistance rating as the floor penetrated but will not need to exceed 2 hr.
Suggested Deadline Date:	09 Sep 2014
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:	3
Description:	There are 3 exit stairs from the 5th floor to ground floor and 2 exit stairs from 7th floor to 6th floor. Only one stair enclosure (middle of the building) is fire resistive with fire doors from ground to 5th floor. Other doors were collapsible type, not side-hinged swinging type.
Source of Findings:	Photograph: Collapsible type door which is not side-hinged swinging type.
Suggested Plan of	Replace all non-compliant doors and frames in the means of egress with doors





Action:	that are listed, approved, automatic-closing, side-swinging, fire rated doors in compatible fire rated frames with latching panic hardware.	
Suggested Deadline Date:	09 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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 are placed at entrances to exits but not along the path of egress. Additional exit signs or directional signs are not provided where there is a change in direction and where the continuation of egress is not obvious. This condition fails to satisfy requirements stated in Alliance Standard.	
Source of Findings:	Photograph: Illuminated exit signs are only installed at entrance to the exit but not along the path of egress.	
Suggested Plan of Action:	Install illuminated exit signs 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:	02 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:	3	
Description:	On the first floor (south side), change of elevation was found to be 3 ft without maintaining the slope.	
Source of Findings:	Photograph: Change of elevation was found to be 3 ft without maintaining the slope.	
Suggested Plan of Action:	Repave the surface to make the slope equal to 1 in 8. Provide handrail on both sides of the sloped walking surface.	
Suggested Deadline Date:	02 Dec 2014	
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:		
Description:	Illuminated exit signs are provided with battery backup and are continuously illuminated.	
Source of Findings:	Photograph: Exit signs are provided with battery backup.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:	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:	3	
Description:	No plan or record of conducting periodic tests of the emergency battery backup for illumination of exit signs was found as required.	
Source of Findings:	Document Review: No relevant document was available.	
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 signs are to be tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year or, since battery backup is used, these lights are required to be tested on a monthly basis.	
Suggested Deadline Date:	15 Jul 2014	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	





Question:	Exit signs have appropriate illumination levels and contrasting graphics.
Priority Level:	Low
Non-Compliance Level:	
Description:	All exit signs have appropriate illumination levels and contrasting graphics as demanded in section 10.12.1.2 of Alliance Standard.
Source of Findings:	Photograph: Exit sign of appropriate illumination level and contrasting graphics.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs
Question:	Walking surfaces along the path of egress are uniformly slip resistant.
Priority Level:	Medium
Non-Compliance Level:	
Description:	Walking surfaces along the path of egress are made of homogeneous tiles which are uniformly slip resistant.
Source of Findings:	Photograph: Walking surfaces along the path of egress are made of homogeneous tiles.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.3.6 Slip Resistance
Question:	Stairs are constructed of noncombustible materials.
Priority Level:	Low
Non-Compliance Level:	
Description:	Stairs are constructed of Reinforced Cement Concrete.
Source of Findings:	Photograph: Stairs are constructed of concrete.
Suggested Plan of Action:	
Suggested Deadline Date:	







Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Question:	Stairs have a minimum width of 0.9 m (35 in.).	
Priority Level:	High	
Non-Compliance Level:		
Description:	Width of all stairs are more than 0.9 m (35 in.).	
Source of Findings:	Visual Assessment: All stairs width are more than 0.9 m (35 in.).	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width. Applies to existing construction.	
Question:	Stair treads are of nominal uniformity.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Stair treads are of nominal uniformity.	
Source of Findings:	Photograph: Stair treads are of nominal uniformity.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standards Part 6 Section 6.9 Stairs. Any tread height exceeding more than 50% of the adjacent tread heights or 75 mm (3 in.), whichever is less, shall be modified to be within this tolerance	
Question:	Landings are provided on both sides of doors used along the path of egress. Doors do not swing out over stairs.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Landings are provided on both sides of doors used along the path of egress and doors do not swing out over stairs in main building.	
Source of Findings:	Photograph: Landings are provided on both sides of door and do not swing out over stairs.	
Suggested Plan of Action:		




Suggested Deadline Date:		
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:		
Description:	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.	
Source of Findings:	Photograph: Stair width and landing width were measured on sample basis.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:	2	
Description:	Some stairs do not have handrails on both sides. The width of stairs does not exceed 2.2 m in any building.	
Source of Findings:	Photograph: Handrails on both sides are not provided in stair-2 of main building.	
Suggested Plan of Action:	Provide handrails on both sides of each stairway. Provide intermediate handrail when the stair width exceeds 2.2 m (87 inch). Provide handrail of height between the range 865 mm (34 in.) and 965 mm (38 in.).	
Suggested Deadline Date:	02 Dec 2014	
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:	There are 3 exit stairs from the 5th floor to ground floor and 2 stairs on the 7th floor to 6th floor. Only one stair enclosure (middle of the building) is fire resistive with fire doors from ground to 5th floor. But none has re-entry provided. Others door are collapsible type.	
Source of Findings:	Photograph: Doors are collapsible type without re-entry type certified fire door.	
Suggested Plan of Action:	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets the following requirements. Stair doors may be permitted to be locked from the stair (ingress) side that prevents re-entry to the floor provided at least two floors allowing re-entry to access another exit are provided, there are not more than 4 stories intervening between re-entry floors, re-entry is allowed on the top or next to top level, re-entry doors are identified as such on the stair side, and locked doors shall be identified as to the nearest re-entry floors. When the discharge floor is determined to be a required re-entry floor using the above requirements, re-entry does not have to be provided back into the building on this level.	
Suggested Deadline Date:	09 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	The exterior steel stair from the 6th to 7th floor has no fire separation from the building beyond 10 feet of its span as required. The exit leading towards exterior stairs are not fire rated in both floors.	
Source of Findings:	Visual Assessment: Exterior exit stairs are not separated from the building with the required rated materials.	
Suggested Plan of Action:	Provide a fire-resistive rated assembly between the exterior exit stairs and the building to achieve the required separation in accordance with Alliance Standard. The rated assembly should be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	09 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.3.1.2. Three stories or less 1-hr rating. Four stories of more 2-hr rating	



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:		
Description:	Interior exit stairways and ramp terminate at exit discharge.	
Source of Findings:	Visual Assessment: Interior exit stairways and ramp terminate at exit discharge.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
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:	3	
Description:	Floor level is posted but stair name or designation is not mentioned.	
Source of Findings:	Photograph: Stair designation signs are not provided at entrance from the stair to the floor.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations.	
Suggested Deadline Date:	15 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Question:	Stairwells are not utilized as storage spaces.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Stairwells are free from storage.	
Source of Findings:	Visual Assessment: Stairwells were found free.	
Suggested Plan of Action:		
Suggested Deadline Date:		



Standard:	Alliance Standard Part 13 Section 13.9 Safety Inspections	
Question:	Ramps used in a means of egress do not reduce the overall means of egress width. The minimum width shall be 1.1 m (44 in.).	
Priority Level:	High	
Non-Compliance Level:		
Description:	In main building, a ramp was found at south side of 1st floor which did not reduce the overall means of egress width.	
Source of Findings:	Visual Assessment: A ramp was available in the means of egress.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standards Part 6 Section 10 Ramps	
Question:	Ramps do not have a running slope greater than 1 in 8 (12.5 percent) and have handrails on both sides of the ramp.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	In main building, a ramp was found at south side of 1st floor having slope greater than 1 in 8 (12.5 percent) and no handrails are provided on both sides of the ramp.	
Source of Findings:	Photograph: Ramp without proper slope and handrails.	
Suggested Plan of Action:	Repave the surface to make the slope equal to 1 in 8 and provide handrail on both sides of the ramp.	
Suggested Deadline Date:	02 Dec 2014	
Standard:	Alliance Standard Part 6 Section 10 Ramps	
<b>Fire Safety Programs</b>		
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	There is no viable documentation or physical presence of Fire Safety Director. However, the factory has informed that they have a designated person, who is also the Assistant Manager (Admin & Compliance).	



Source of Findings:	Photograph: Appointment letter of Fire and Safety Officer for the Assistant Manager (Admin & Compliance).
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has had sufficient training to be able to carry the required duties. The duties of the Fire Safety Director shall include the following: (1) Establish internal and external rally points and communicate to all employees in the building. (2) Fire department pre-planning. (3) Conduct safety inspections as outlined in Alliance Standard. (4) Ensure all testing of fire protection equipment is conducted in accordance with Alliance Standard.
Suggested Deadline Date:	02 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director
Question:	An emergency evacuation plan has been developed and communicated to all employees.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Workers are aware of the evacuation procedure upon commencing of the alarm. However, no procedure defining evacuation process was available.
Source of Findings:	Document Review: A developed evacuation plan was unavailable.
Suggested Plan of Action:	Develop an emergency evacuation plan which includes all components required by the Alliance Standards and communicate the plan to all employees. The evacuation plan shall include provisions to assist physically disabled persons. A list of all employees with physical disabilities shall be kept by the Fire Service Director.
Suggested Deadline Date:	15 Jul 2014
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:	2
Description:	Emergency egress maps are not posted on 7th floor. It was posted on other floors but not at the entrance to each exit stair or main point of egress.
Source of Findings:	Visual Assessment: Emergency egress maps were not posted on 7th floor of main building.
Suggested Plan of Action:	Post emergency egress maps/fire evacuation maps at the entrance to each exit stair or main point of egress.
Suggested Deadline	15 Jul 2014



Date:	
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 was not found.
Source of Findings:	Document Review: No fire department pre-planning documentation was found.
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.
Suggested Deadline Date:	15 Jul 2014
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director
Question:	Fire Drills are conducted at required intervals based on building use type.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Fire Drills are conducted at required intervals based on building use type but not under the direction of a Fire Safety Director. The last fire drill was held on 7 May 2014.
Source of Findings:	Photograph: Fire drill was conducted on 7th May 2014.
Suggested Plan of Action:	Conduct fire drills on a quarterly basis as outlined in BNBC Part 4 Appendix A for all garment facilities. Fire drills shall be conducted under the direction of a Fire Safety Director. All other requirements for fire drills shall be conducted in accordance with BNBC requirements.
Suggested Deadline Date:	30 Jul 2014
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills
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:	






Description:	The required number of people are trained and certified in fire fighting, first aid and rescue training by the appropriate authority.	
Source of Findings:	Photograph: People are trained and certified in fire fighting, first aid, and rescue training.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 13 Human Element Programs	
Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Written housekeeping policy was found which is required as per Alliance Standards Part 13 Section 13.6.	
Source of Findings:	Photograph: Housekeeping policy.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:	Hot-work is not taking place in the factory. A hot-work permit program was already established but it does not comply with NFPA requirements.	
Source of Findings:	Photograph: Hot-work permit register.	
Suggested Plan of Action:	Develop a NFPA-compliant hot-work permit program. In general, this program should address the process of request and approval of authorities, necessary checks prior to approval, standby fire watch and fire fighting equipment, sounding of alarm procedure, duration and expiry of permit and re-approval procedure, etc.	
Suggested Deadline Date:	02 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	



Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Fabrics are stored underneath the cutting tables of the cutting section.
Source of Findings:	Photograph: Fabrics are stored underneath the cutting table.
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.
Suggested Deadline Date:	15 Jul 2014
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	No document of any training program in accordance with the Alliance Safety Training Curriculum was found.
Source of Findings:	Document Review: No record of training program was available on fire safety.
Suggested Plan of Action:	
Suggested Deadline Date:	15 Jul 2014
Standard:	Alliance Standards Part 13
Question:	Smoking is only allowed at designated areas.
Priority Level:	Low
Non-Compliance Level:	
Description:	Smoking is strictly prohibited in the factory premises.
Source of Findings:	Visual Assessment: During site tour no designated area for smoking was noticed.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standards Part 13 Section 13.5 Smoking





Question:	Are all applicable permits up to date including Fire License & Boiler License.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Total capacity of generators was found to be 678 KW but BERC certificate was available for only 400 KW.	
Source of Findings:	Photograph: BERC certificate is available for 400 KW.	
Suggested Plan of Action:	Apply to BERC for waiver certificate for additional generator capacity of 278 KW.	
Suggested Deadline Date:	15 Aug 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	
Question:	Are there additional areas of non-compliance to report?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	No other additional areas of non-compliance to this report.	
Source of Findings:	Visual Assessment: No remarkable non-compliance issues were found.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Not Applicable	