

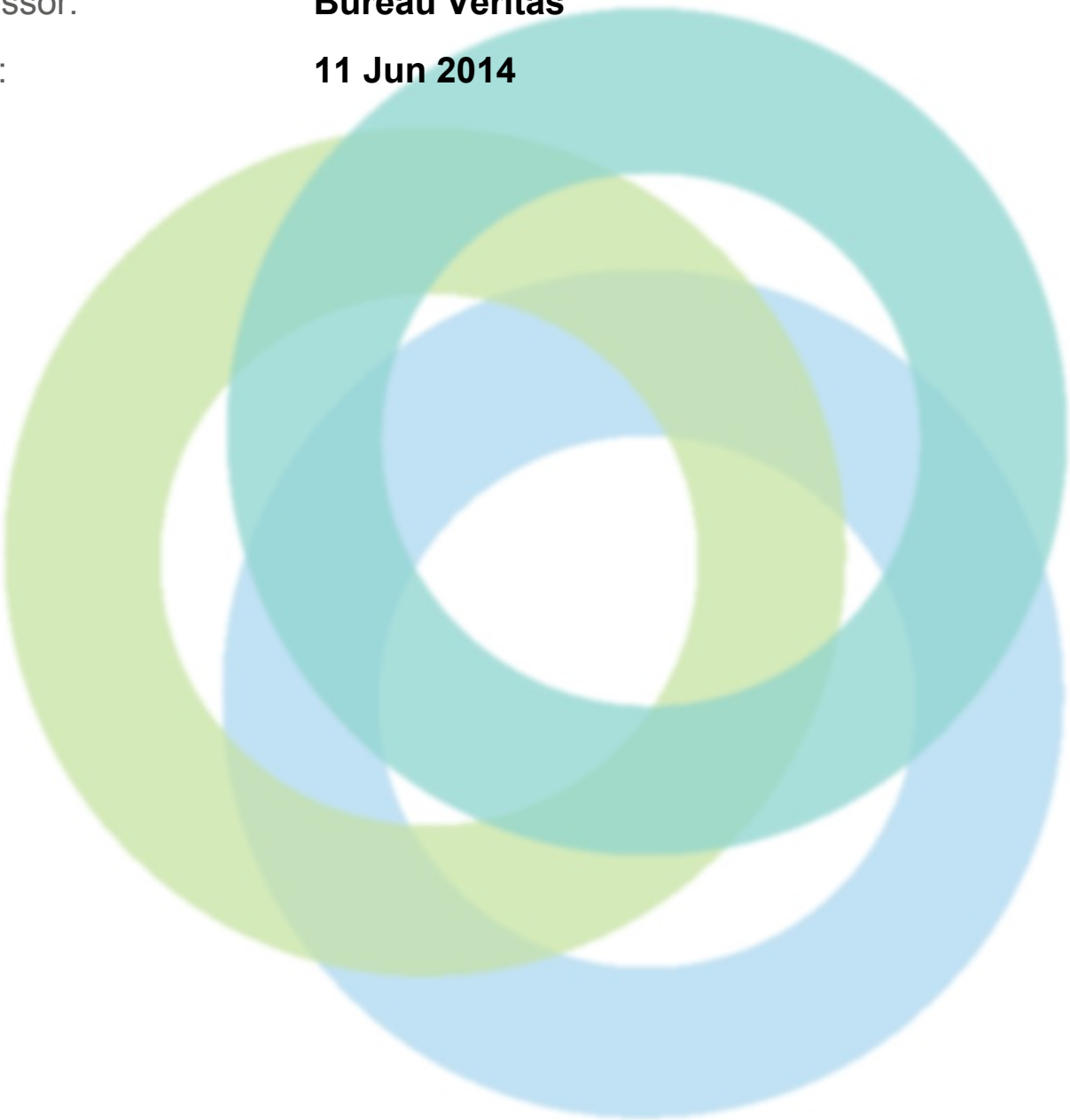
INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Garment Export Village Ltd**

Address: **Maa Tower, KBM RD, Tongi IND Area, (Near national tubes) Tongi Tongi, Gazipur Dhaka Bangladesh**

Assessor: **Bureau Veritas**

Date: **11 Jun 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:	Garment Export Village Ltd
Address:	Maa Tower, KBM RD, Tongi IND Area, (Near national tubes) Tongi Tongi, Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Tongi, Gazipur
Zip Code:	1710
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	07-05-2014
Final Report Date:	07-13-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 2 buildings in the factory premises out of which one is main production building and one is ancillary building. The buildings are named as: 1) Ten story RCC main production building, 2) Single story RCC security building.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Ten story RCC main production building: Building height (Highest occupied floor level): 29.93 m or 98.17 ft [Height up to roof: 32.93 m or 108 ft], Stories above grade: 10, Stories below grade: 0, Occupied levels: 10, 2) Single story RCC security building: Building height (Highest occupied floor level): At grade [Height up to roof: 3.05 m or 10 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: 235064.17 sft. Building wise breakdown as follows: 1) Ten story RCC main production building: 235000 sft (Ground floor: 23500 sft, 1st floor: 23500 sft, 2nd floor: 23500 sft, 3rd floor: 23500 sft, 4th floor: 23500 sft, 5th floor: 23500 sft, 6th floor: 23500 sft, 7th floor: 23500 sft, 8th floor: 23500 sft, 9th floor: 23500 sft), 2) Single story RCC security building: 64.17 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: 1) Ten story RCC main production building: Started in March-2004 and finished in December-2005, 2 Single story RCC security building: Started in March-2005 and finished in December-2005.
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 RCC security building.
Approximate Ancillary Structures Area (SF):	1) Single story RCC security building: 64.17 sft.
Number of Occupants:	Total number of occupants: 2755. 1) Ten story RCC main production building: 2745 (Ground floor: 30, 1st floor: 30, 2nd floor: 260, 3rd floor: 615, 4th floor: 450, 5th floor: 550, 6th floor: 600, 7th floor: 180, 8th floor: 10, 9th floor: 20), 2) Single story RCC security building: 10.
Number of Ancillary Levels (Stories):	1) Single story RCC security building: Building height (Highest occupied floor level): At grade [Height up to roof: 3.05 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	1) Ten story RCC main production building: [Ground floor: K (Generator, boiler, compressor, sub-station, maintenance room, meter room, fire pump), H2 (Accessories storage), G2 (Embroidery section), D1 (Medical), B2 (Child care), F1 (HR & admin, CCTV & PA system control room). 1st floor: H2 (Bonded ware house-1, finished goods storage, bonded ware house-2), G2 (Printing section), K (water treatment plant), 2nd floor: J2 (Chemical store), G2 (Washing section, finishing section), 3rd floor: G2 (Cutting section, sewing section), K (Maintenance room), 4th floor: G2 (Finishing section, packing area, linking section, inspection room, spot removing room), 5th floor: G2 (Cutting section, finishing section, sewing section, spot removing room), and see the description.
Construction Type:	1) Ten story RCC main production building: [Ground floor to 8th floor: Type 1, 9th floor: Non-rated (Only ceiling)], 2) Single story RCC security building: Type 1.
Height of Highest Occupied Floor Level Above Grade:	1) Ten story RCC main production building: 29.93 m or 98.17 ft, 2) Single story RCC security building: At grade.



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	Generator and sub-station room is open to ground floor of Ten story RCC main production building without fire rated door. Chemical store (J2) is separated from washing area (G2) by aluminum glass doors, where 4 hour rated construction barrier is required as per Table 3.2.1 of BNBC. Therefore no opening is allowed between those occupancies as per section 2.3.3 of BNBC. The wall separating dining area (E4) from fabric & accessories store (H2) has unprotected openings, where 3 hour rated opening assembly is required as per Table 3.2.1 of BNBC and section 4.6 of Alliance Standard. Such unprotected openings are not allowed according to Alliance Standard Part 4 Section 4.6.
Source of Findings:	Visual Assessment: Unprotected openings through rated walls were found at noted locations.
Suggested Plan of Action:	Provide openings protective at all doors, windows and other openings on all the fire rated wall across the entire premises as per Alliance Standard 4.6 & BNBC Part 3 table 3.2.2. If these openings are not required, close these.
Suggested Deadline Date:	27 Oct 2014
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations
Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	There are 3 staircases in the main building. Exit enclosure walls have a thickness of approximately 6 inch with finishing which has the rating of 2 hour as per Alliance Standard. No fire rated door is installed at exits of any floor. Collapsible gates, glass doors and rolling shutter are installed at exit enclosure. The doors on these stairs need to be 1.5 hour rated as per clause 4.5 and 4.6 of Alliance Standard.
Source of Findings:	Visual Assessment: No fire door was found during site visit.
Suggested Plan of Action:	Install side-swinging, self-closing, non-lockable fire doors of 1.5 hr rating in all stairwell enclosures which shall be swinging in the direction of egress. Consult a qualified fire protection engineer to design the required rated construction barriers.





Suggested Deadline Date:	27 Oct 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:	On 1st floor of Ten story RCC main production building, bonded ware house (H2) is separated from printing section (G2) by steel grill, which is not capable of providing 1 hour fire separation as demanded in Section 3.4.2.1.5 of Alliance Standard. Spot removing room on 3rd floor of main building is separated from production area by glass and aluminum partitions. The room needs to be fire separated with 1.0 hour construction barrier along with 0.75 hour rated doors. Dining area (E4) on 9th floor of main building is separated from fabric & accessories store (H2) by wire mesh on top of brick wall, where 3.0 hour fire separation is required as per Table 3.2.1 of BNBC.	
Source of Findings:	Visual Assessment: Non rated separations were observed at noted locations.	
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types in accordance with Alliance Standard Sections 3.4 and 4.5. Consult a qualified fire protection engineer to design the required rated construction barrier.	
Suggested Deadline Date:	19 Jan 2015	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Fire dampers installed on air-conditioning and ventilation ducts appear to be in good condition and operational.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	On 7th floor, air-conditioning and ventilation duct is found passes through in a rated corridor wall which is adjacent to the office and there is no fire damper available for this air-conditioning and ventilation duct system.	
Source of Findings:	Visual Assessment: No fire damper was found in the air-conditioning and ventilation ducts in the building.	
Suggested Plan of Action:	Install fire damper in air-conditioning and ventilation ducts.	
Suggested Deadline Date:	19 Jan 2015	
Standard:	Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations	



Question:	Certificates of Occupancy for each building have been issued and are on file.
Priority Level:	Low
Non-Compliance Level:	1
Description:	No occupancy certificate available for any building in the factory premises.
Source of Findings:	Document Review: There was no occupancy certificate for any building among the documents shown by the factory concerned people.
Suggested Plan of Action:	Apply to Tongi Pourashava for issuance of occupancy certificate and pursue the matter to expedite.
Suggested Deadline Date:	02 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:	Height of the highest occupied level of the main building is 29.93m (98.17 ft). The whole building needs to be protected by automatic sprinkler system. But sprinkler system is not installed in the building. Automatic sprinkler systems are to be provided throughout the buildings with an occupied floor greater 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.
Source of Findings:	Visual Assessment: During site tour, no sprinkler system was found installed.
Suggested Plan of Action:	Install an automatic sprinkler system throughout the building designed by a qualified fire protection engineer. The hydraulic design of the sprinkler system has to be pre-approved by CoE of Alliance. Installation of new automatic sprinkler systems shall be required to provide shop drawings and hydraulic calculations as outlined in NFPA 13. The test and performance report of the installed system has to be submitted to Alliance for review. Final inspection and testing shall be witnessed by Alliance according to clause 5.3.
Suggested Deadline Date:	13 Apr 2015
Standard:	Reference Alliance Standards Part 3 Section 3.5.3 Existing Buildings, Part 5 Section 5.3 Automatic Sprinkler Systems and Section 6.13 Travel Distance



Question:	Does the building have a fire pump?
Priority Level:	High
Non-Compliance Level:	3
Description:	Fire pump set is available with backup power, however it does not comply with the requirements of Alliance Standards and NFPA 20. Hydraulic calculation for the installed standpipe system is also not available. Therefore, required capacity of fire pump is not known. Suction lift is used whereas suction head is required as per NFPA 20. Additionally, detailed design of pump components and layout as per NFPA 20 were not found during the Audit.
Source of Findings:	Visual Assessment: A pump dedicated for fire fighting was found in the factory premises.
Suggested Plan of Action:	Have a qualified engineer review the pump capacity and ensure hydraulic calculation is done which can be supported by this pump. Also, identify all other performance data and ensure conformity to NFPA 14, 20, 22 and 25 standards.
Suggested Deadline Date:	19 Jan 2015
Standard:	Alliance Standard Part 5 Fire Protection Systems
Question:	Trouble or alarm notifications were not indicated on the fire alarm control panel.
Priority Level:	High
Non-Compliance Level:	3
Description:	Centralized automatic fire alarm and smoke/heat detection system with control panel is not available.
Source of Findings:	Visual Assessment: No centralized fire alarm and detection system was found in the factory premises.
Suggested Plan of Action:	Install a centralized automatic fire alarm and smoke/heat detection system with control panel following the requirement of NFPA 72 throughout all new and existing buildings and structures.
Suggested Deadline Date:	26 Oct 2014
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:	3





Description:	Standalone detectors are available, there is no fire alarm control panel. Moreover pull stations, visual and audible devices are not placed where required and approved shop drawing also was not found.
Source of Findings:	Visual Assessment: During site tour, pull station, smoke detector, audible alarm, visual alarm were not found as required.
Suggested Plan of Action:	Install initiating devices and notification appliances as required by the Alliance Standard and NFPA 72. This includes electrical supervision of all valves controlling fire protection systems (sprinklers, fire pumps, water supplies, etc.). Connect devices to an automatic fire alarm and detection system for the facility. All fire alarm installations shall be submitted for review by the Alliance prior to commencement of installation.
Suggested Deadline Date:	27 Oct 2014
Standard:	Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72
Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	2
Description:	Height of the highest occupied level of the main building is 29.93 m or 98.17 ft. Therefore, class I standpipe system along with sprinkler system need to be installed throughout the building as per Alliance Standard 5.4.2, 5.3.2.1 and NFPA 14. But only class II stand pipe system is installed in the main building. However no approved hydraulic design is available for the installed system.
Source of Findings:	Visual Assessment: Only class II stand pipe system was found in the main building.
Suggested Plan of Action:	Install a standpipe system at required locations designed by a qualified fire protection engineer. The system is to be compliant with the requirements of Alliance Standard 5.4 and NFPA 14.
Suggested Deadline Date:	27 Oct 2014
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2
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:	3
Description:	Centralized alarm and detection system is not available.
Source of Findings:	Visual Assessment: No centralized fire alarm and detection system was found





	in the factory premises.
Suggested Plan of Action:	Provide an automatic fire alarm and detection system per NFPA 72 as required by the Alliance Standard and arrange for direct connection of the system to a central station monitoring service or the Fire Service and Civil Defense as per Alliance Standard Part 5 Section 5.7.5 Monitoring. Until that time that a central station monitoring service or direct connection to the Fire Service and Civil Defense can be set up, 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:	26 Oct 2014
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Fire department (Siamese) inlet connection is not provided to allow fire department pumper equipment to supplement the fire protection systems as per clause 5.5.4. But fire department outlet connection is available in the factory premises.
Source of Findings:	Visual Assessment: During site tour, no fire department inlet connection (Siamese) was found.
Suggested Plan of Action:	Provide fire department (Siamese) connection in accordance with Alliance Standard Section 5.5.4. Connections shall match the fire service & Civil Defence hose thread standpipe.
Suggested Deadline Date:	19 Jan 2015
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections
Question:	Fire extinguishers are inspected, tested, and maintained as required.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Extinguishers are inspected monthly by factory's concerned people. But no document was found in support of i) annual maintenance of extinguishers by a servicing agent and ii) annual testing of nozzle of CO2 extinguisher. These are required as per NFPA 10.
Source of Findings:	Document Review: Relevant documents are not compliant with NFPA 10.
Suggested Plan of Action:	Fire extinguishers are to be inspected, tested, and maintained in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section





	13.10.3. Provide and maintain proper documentation.	
Suggested Deadline Date:	19 Jan 2015	
Standard:	NFPA 10 Chapter 7	
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:	NFPA compliant standpipe system is not installed in the building. Inspection, maintenance, and testing procedures of the installed class II standpipe and hose is not documented and up to date.	
Source of Findings:	Visual Assessment: No document regarding inspection, maintenance and testing procedure of standpipe and hose system was found among the documents shown by the factory personnel.	
Suggested Plan of Action:	Once a standpipe system is installed at required locations designed by a qualified fire protection engineer, provide an inspection, testing and maintenance program in compliance with NFPA 25 for the new system.	
Suggested Deadline Date:	19 Jan 2015	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Is signage for the standpipe system installed at required locations and on required components?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	NFPA compliant standpipe system is not installed in the building. Signage for the available standpipe system is not installed.	
Source of Findings:	Visual Assessment: No signage was found for the installed standpipe system.	
Suggested Plan of Action:	Once a standpipe system is installed at required locations designed by a qualified fire protection engineer, provide signage in compliance with NFPA 14 for the new system.	
Suggested Deadline Date:	02 Nov 2014	
Standard:	Reference NFPA 14 Chapter 6	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	



Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Installed fire pump does not comply with the requirements of Alliance Standards and NFPA 20. Inspection, maintenance, and testing procedures of the installed pump is not documented and up to date.	
Source of Findings:	Visual Assessment: No document regarding inspection, maintenance and testing procedure of fire pump was found in the documents shown by the factory personnel.	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the fire pump. Program must comply with NFPA 25.	
Suggested Deadline Date:	19 Jan 2015	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		
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:	3	
Description:	Exit access corridors are not separated by walls having a fire-resistance rating of 1 hr. Exit corridors on different floors are provided with guard rails at one side and other side is separated by walls having windows of aluminum and glass.	
Source of Findings:	Visual Assessment: Exit access corridors were not found to be fire separated.	
Suggested Plan of Action:	Provide automatic sprinkler system throughout the building designed by a qualified fire protection engineer as per NFPA 13.	
Suggested Deadline Date:	27 Oct 2014	
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:	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:	There are collapsible, rolling shutter & glass swinging doors with locking arrangements at all egress locations. This violates Alliance Standard Part 6 Section 6.8.2.	



Source of Findings:	Visual Assessment: During site tour, locking devices were noticed at exit doors.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices from all egress doors.	
Suggested Deadline Date:	19 Oct 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, Doors at exits are collapsible, rolling shutter and glass swinging type, therefore obviously non-rated. Fire doors of proper rating are required in accordance with section 6.3.1.2.2 and 4.6.	
Source of Findings:	Visual Assessment: During site tour, no fire door was found at egress points.	
Suggested Plan of Action:	Replace non-compliant doors and frames in the means of egress with side-swinging doors. Replacement doors shall be a minimum width of 0.8 m (32 in), and are listed, approved, self-closing, fire rated door assemblies (door and frame) with latching panic hardware.	
Suggested Deadline Date:	27 Oct 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 collapsible, rolling shutter and glass swinging type doors at each egress location. This violates Alliance Standard Part 6 Section 6.8.1.	
Source of Findings:	Visual Assessment: During site tour, collapsible gates, rolling shutter and glass swinging type exit doors were found.	
Suggested Plan of Action:	Replace all collapsible, sliding, roll-down gates and shutters in means of egresses with side-hinged swinging type doors of proper width and rating in accordance with Alliance Standard, Part-6, Section-6.8.1.	
Suggested Deadline Date:	27 Oct 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	



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:	All the stairs (3 nos) in the main building have handrails on one side.
Source of Findings:	Visual Assessment: All the stairs have handrails on one side.
Suggested Plan of Action:	Provide handrails on both side of each stairway.
Suggested Deadline Date:	19 Jan 2015
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards
Question:	Every door in a stair enclosure serving more than 5 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	The main production building has 10 stories. Stair doors with re-entry are required in at least 2 floors according to Alliance Standards Part 6 Section 6.8.3.
Source of Findings:	Visual Assessment: No re-entry provision was found at exit doors.
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, reentry 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 reentry floor using the above requirements, re-entry does not have to be provided back into the building on this level.
Suggested Deadline Date:	27 Oct 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
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 are not posted in a conspicuous space near the main exits or exit access doorways as demanded in Alliance Standard Part 6 Section 6.4.4.
Source of Findings:	Visual Assessment: Occupant loads were not posted at required locations.
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:	26 Oct 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
Question:	All paths of egress are provided with compliant means of illumination.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	All paths of egress are not provided with compliant means of illumination.
Source of Findings:	Visual Assessment: All paths of egress were not found to be compliantly illuminated.
Suggested Plan of Action:	Install emergency lighting for all paths of egress in accordance with Alliance Standard Section 6.7. Illumination needs to be a minimum of 10 lux for all corridors, exit doors and stairways. Illumination for aisles needs to be a minimum of 2.5 lux. Egress lighting shall be provided with emergency power or supplemented with battery powered lights that provide a minimum of 10 lux for not less than 30 mins in the event of failure of normal lighting.
Suggested Deadline Date:	19 Jan 2015
Standard:	Alliance Standards Part 6 Section 6.7 Egress Illumination and Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape
Question:	Emergency power for means of egress illumination is verified at least once per year. If battery operated lights are used, these lights are tested on a monthly basis. Functional testing of battery powered lights is provided for a minimum 90 min once per year.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Record of verifying emergency power for means of egress illumination was not found which is required as per Alliance Standards Part 10 Section 10.12.2.3.
Source of Findings:	Document Review: No document regarding verification of emergency power for means of egress was found among the documents shown by the factory personnel.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for all egress lighting is verified at least once per year. If battery-operated lights are used, these lights shall be tested on a monthly basis.





	Functional testing of battery powered lights shall be provided for a minimum 90 min once per year.
Suggested Deadline Date:	26 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 are placed at entrances to exits but along the path of egress additional exit sign or directional signs are not provided where there is a change in direction and where the continuation of egress is not obvious.
Source of Findings:	Visual Assessment: Illuminated exit signs were not found at all required locations.
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:	19 Jan 2015
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs
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 record of verifying emergency power for means of egress illumination was found as required in accordance with Alliance Standards Part 10 Section 10.12.2.3. Emergency light checking register found.
Source of Findings:	Document Review: No document regarding testing of emergency power for exit signs was found among the documents shown by the factory personnel as required in accordance with Alliance Standards Part 10 Section 10.12.2.3.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit signs is tested at least once per year. If battery operated signs are used, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.
Suggested Deadline Date:	26 Oct 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:	1	
Description:	Some exit signs do not have appropriate illumination level and contrasting graphics as demanded in section 10.12.1.2 of Alliance Standard.	
Source of Findings:	Visual Assessment: Some exit signs were found without appropriate illumination level.	
Suggested Plan of Action:	Make sure all required exit signs are illuminated continuously at all times. Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2cd/m2 may also be used.	
Suggested Deadline Date:	19 Jan 2015	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs	
Question:	Stair designation signs are provided at each floor entrance from the stair to the floor in English and Bengali. Signs indicate the name of the stair and the floor level. Signs are posted adjacent to the door.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Floor levels are mentioned in Bengali and English but stair names or designations are not mentioned.	
Source of Findings:	Visual Assessment: During site visit no stair name or designation was found.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in both English and Bengali.	
Suggested Deadline Date:	26 Oct 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Fire Safety Programs		
Question:	An emergency evacuation plan has been developed and communicated to all employees.	
Priority Level:	Medium	
Non-Compliance Level:	2	



Description:	Through the interview it was noted that the 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: Among the documents shown by the factory personnel, no proper emergency evacuation plan was found.	
Suggested Plan of Action:	Develop an emergency evacuation plan which includes duties and responsibilities of various people/groups, interfacing between groups and fire brigade, headcount and identification of trapped victims, physically disabled people and their rescue, etc. and 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:	26 Oct 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Storage areas underneath the cutting tables are clear of combustibles.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Fabrics are stored underneath the cutting tables of cutting section on 5th and 6th floor.	
Source of Findings:	Visual Assessment: Fabrics were found underneath the cutting tables.	
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.	
Suggested Deadline Date:	12 Oct 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: Alliance Safety Training Curriculum was not found among the documents shown by factory personnel.	
Suggested Plan of Action:	Impart training in accordance with Alliance Safety Training Curriculum and keep record with proper documentation.	
Suggested Deadline	26 Oct 2014	



Date:		
Standard:	Alliance Standards Part 13	
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 document regarding fire department pre-planning was found among the documents shown by factory personnel.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense in accordance with Alliance Standard, Part-13, Section-13.1.1(2).	
Suggested Deadline Date:	26 Oct 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Written housekeeping policy was not found, which is required as per Alliance Standards Part 13 Section 13.6.	
Source of Findings:	Document Review: No document regarding housekeeping policy has been found among the documents shown by factory personnel.	
Suggested Plan of Action:	Establish written corporate and plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m2 (500 ft2). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.).	
Suggested Deadline Date:	13 Apr 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Hot work permit program is not established yet. It is required as per Alliance	



	Standards Part 13 Section 13.4. However, hot-work is not going on in the factory right now.
Source of Findings:	Document Review: No hot work permit could be presented by the factory personnel.
Suggested Plan of Action:	Develop a hot work permit program. The program must comply with the requirements of NFPA 51B. In general, this program should address process of request and approval authorities, necessary checks prior 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:	19 Jan 2015
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B
Question:	Are all applicable permits up to date including Fire License & Boiler License.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Trade license, Factory License, Boiler operator license, Electrician license (category B,C) are available. Boiler License is available but validity expired, BERC License is not available. Factory authority has applied for renewal of boiler license on 24/04/14 & 21/06/14 and for BERC license on 23/12/2010.
Source of Findings:	Document Review: Boiler license validity has been expired and BERC license is not available. All other permits were found up to date.
Suggested Plan of Action:	Pursue the application process of BERC license and renewal process of Boiler license to expedite the matter.
Suggested Deadline Date:	26 Oct 2014
Standard:	Alliance Standard Part 13 Human Element Programs

