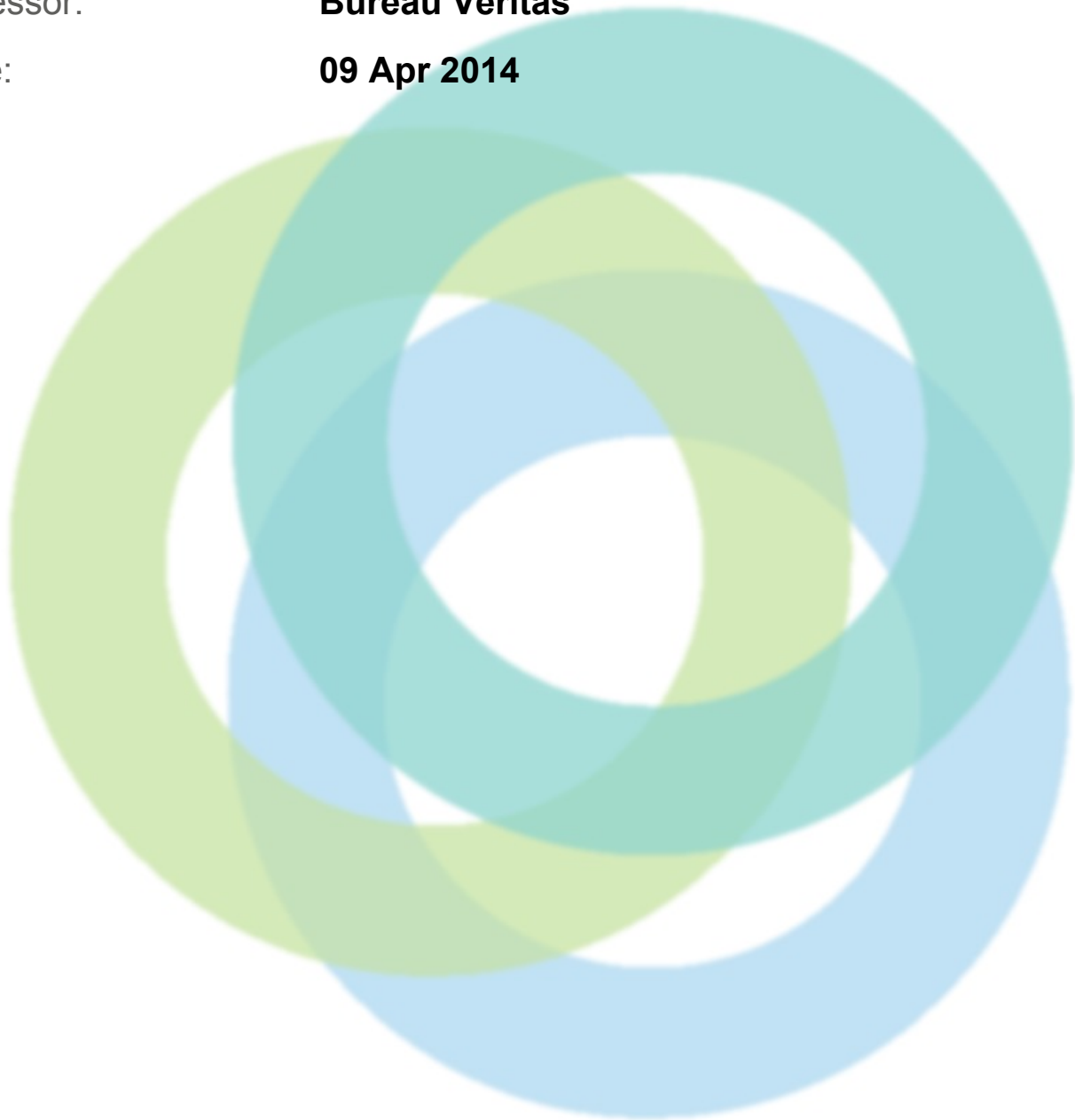


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Ratul Knitwear**
Address: **CS, SA-41, Zirabo, Ashulia, Savar Ashulia, Savar
Dhaka Bangladesh**
Assessor: **Bureau Veritas**
Date: **09 Apr 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:	Ratul Knitwear
Address:	CS, SA-41, Zirabo, Ashulia, Savar Ashulia, Savar Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Ashulia, Savar
Zip Code:	
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-08-2014
Final Report Date:	05-10-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are five buildings in the factory premises out of which one is main production building and four are ancillary buildings. The buildings are named as: 1) Six story steel structure main production building, 2) Two story structure for generator, transformer, compressor and storage, 3) Two story RCC security office and dining building, 4) Single story RCC pump room. 5) Single story non rated diesel store room.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1. Main Building (Production) Building Height: 73.5 ft (22.40 m), Stories above grade: 6, Stories below grade: 0, Occupied levels: 6; 2. Shed (Generator, Transformer, compressor and store) Building Height: 32ft (9.75 m), Stories above grade: 2, Stories below grade: 0, Occupied level: 2; 3. Security office, dining Building Height: 20ft (6.09m), Stories above grade: 2, Stories below grade: 0, Occupied level: 2; 4. Pump room Building Height: 8ft (2.43m), Stories above grade: 1, Stories below grade: 0, Occupied level: 1; 5. Store room (Diesel) Building Height: 8ft (2.43m), Stories above grade: 1, Stories below grade: 0, Occupied level: 1
Approximate Building Area (SF):	Total area of all buildings in the factory premises: 91,220 sft. Building wise breakdown as follows: 1) Six story steel structure main production building: 72,500 sft(Ground floor: 11,100.00 sft, Mezzanine floor: 2,300.00 sft, 1st floor: 11,100.00 sft, 2nd floor: 12,000.00 sft, 3rd floor: 12,000.00 sft, 4th floor: 12,000.00 sft, 5th floor: 12,000.00 sft). 2) Two story structure for generator, transformer, compressor and storage: 18,180 sft (Ground floor: 9,090 sft 1st floor: 9,090 sft) 3) Two story RCC security office and dining building: 360 sft (Ground floor: 180 sft 1st floor: 180 sft) 4) Single story RCC pump room: 80 sft 5) Single story non rated diesel store room: 100 sft
Date of Building	2010-2012 (as per verbal information from factory)



Construction:	
Date of Last Building Renovation/Addition:	No record for date of renovation or addition was found from factory personnel.
Ancillary Structures in Complex:	1)Two story structure for generator, transformer, compressor and storage, 2)Two story RCC security office and dining building, 3)Single story RCC pump room, 4)Single story non rated diesel store room.
Approximate Ancillary Structures Area (SF):	1) Two story structure for generator, transformer, compressor and storage: 18,180 sft.(Ground floor: 9,090 sft, 1st floor: 9,090 sft); 2) Two story RCC security office and dining building: 360 sft. (Ground floor: 180 sft, 1st floor: 180 sft); 3) Single story RCC pump room: 80 sft; 4) Single story non rated diesel store room: 100 sft.
Number of Occupants:	Total number of occupants: 978. 1) Six story steel structure main production building: 876, (Ground floor: 104, Mezzanine: 4, 1st floor: 32, 2nd floor: 119, 3rd floor: 423, 4th floor: 69, 5th floor: 125), 2) Two story structure for generator, transformer, compressor and storage: 85, (Ground floor: 50, 1st floor: 35), 3) Two story RCC security office and dining building: 17, (Ground floor: 15 1st floor: 2), 4) Single story RCC pump room: 0, 5) Single story non rated diesel store room: 0.
Number of Ancillary Levels (Stories):	1) Two story structure for generator, transformer, compressor and storage: Building height (Highest occupied floor level): 3.63 m or 12 ft above grade [Height up to roof: 9.75 m or 32 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2. 2) Two story RCC security office and dining building: 3.05 m or 10 ft above grade [Height up to roof: 6.09 m or 20 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 3) Single story RCC pump room: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 2.78 m or 8 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1. 4) Single story non rated diesel store room (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 2.78 m or 8 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	Entrances to all exit enclosures in the facility are not provided with listed fire rated doors.
Source of Findings:	Photograph: Photograph shows that, No fire rated certified door is available
Suggested Plan of Action:	Provide fire-resistive rated construction barriers and doors at exit enclosures in accordance with Alliance Standards Part 4 Section 4.5 : Separation. Consult a qualified fire protection engineer to design the required rated construction barriers.
Suggested Deadline Date:	30 Aug 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation
Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	2
Description:	In Main Building (Production), Photo-1 shows that no fire rated door is installed at exit point.
Source of Findings:	Visual Assessment: The opening through rated wall.
Suggested Plan of Action:	Provide fire-resistive rated opening protection in accordance with Alliance Standard Sections 4.6.
Suggested Deadline Date:	30 Aug 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 separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	In Main Building (Production), fire separation between yarn storage and accessory storage is not proper. In Generator, TR shed (Utility) does not have proper fire separation between Generator and TR.
Source of Findings:	Photograph: Photograph shows that there is not proper fire separation in storage (main building), Generator, TR shed(Utility).
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types. Consult a qualified fire protection engineer to design the required rated construction barrier
Suggested Deadline Date:	22 Nov 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation



Question:	Certificates of Occupancy for each building have been issued and are on file.
Priority Level:	Low
Non-Compliance Level:	2
Description:	No occupancy certificate available in the factory.
Source of Findings:	Document Review: Documents review shows that no occupancy certificate available in the factory.
Suggested Plan of Action:	Apply to RAJUK for issuance of occupancy certificate and pursue the matter to expedite.
Suggested Deadline Date:	19 Jul 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Question:	Occupancy Type
Priority Level:	
Non-Compliance Level:	
Description:	1)Six story steel structure main production building: [Ground floor: G2 (Knitting), 1st floor: B2 (Child care), F1 (Office), H2 (Storage), 2nd floor: H2 (Packing section), J1 (Spot remove room), 3rd floor: G2 (Sewing), 4th floor: H2 (Wastage store), H2 (Finished fabric store), E4 (Dining), 5th floor: G2 (Printing)], 2)Two story structure for generator, transformer, compressor and storage: [Ground floor: K (Generator, Transformer, Compressor) 1st floor: H2 (storage)] 3)Two story RCC security office and dining building: [Ground floor:



	F1 (Office) 1st floor: E4 (Dining) 4)Single story RCC pump room: K1 5) Single story non rated diesel store room : J1
Source of Findings:	
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Provide Occupancy Type for each building and structure. Reference Alliance Standards Part 3 Use and Occupancy
Question:	Construction Type
Priority Level:	
Non-Compliance Level:	
Description:	1)Six story steel structure main production building: Non rated[Non rated steel structure building], 2)Two story structure for generator, transformer, compressor and storage : [Ground floor: Type 1, 1st floor: Non-rated], 3)Two story RCC security office and dining building: Type-1, 4)Single story RCC pump room: Type-1, 5)Single story non rated diesel store room: Non rated.
Source of Findings:	
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Provide construction type for each building and ancillary structure. Reference Alliance Standards Table 3.3.1
Question:	Height of Highest Occupied Floor Level Above Grade
Priority Level:	
Non-Compliance Level:	
Description:	1)Six story steel structure main production building: 19.36 m (63.5 ft) 2)Two story structure for generator, transformer, compressor and storage : 3.63 m or 12 ft 3) Two story RCC security office and dining building: 3.05 m or 10 ft 4) Single story RCC pump room: 30 cm or 1 ft above grade 5) Single story non rated diesel store room: 30 cm or 1 ft above grade.
Source of Findings:	Visual Assessment: .
Suggested Plan of Action:	
Suggested Deadline Date:	



Standard: Provide maximum height of highest occupied floor level above grade for each type of building and ancillary structure.

Fire Protection Systems

Question: Does the building have a Standpipe System?

Priority Level: High

Non-Compliance Level: 3

Description: No hydraulic and plumbing design records were found. Stand pipe hose connection for 65 mm dia is not available at any stairwell. Standpipe hose connection 25mm plastic available at floor.

Source of Findings: Visual Assessment: Photograph shows that, Class-I stand pipe system is not available.

Suggested Plan of Action: Install standpipe system at required locations. Standpipe system must comply with NFPA 14.

Suggested Deadline Date: 30 Aug 2014

Standard: Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2

Question: Does the building have a fire pump?

Priority Level: High

Non-Compliance Level: 3

Description: No fire pump available in the factory and a fire pump must be installed according to NFPA 20. There is a standby pump for Industrial water supply system.

Source of Findings: Visual Assessment: Visual Assessment shows that no dedicated fire pump was found.

Suggested Plan of Action: Install a dedicated fire pump for the facility in accordance with NFPA 20. Also, install a water storage tank in accordance with NFPA 22.

Suggested Deadline Date: 30 Aug 2014

Standard: Alliance Standard Part 5 Fire Protection Systems

Question: Standpipe system piping is free of mechanical damage, leakage, and corrosion?


Priority Level: Medium

Non-Compliance Level: 2

Description: No proper standpipe system installed throughout the building.





Source of Findings:	Visual Assessment: Visual assessment shows that, No proper standpipe system installed throughout the building.	
Suggested Plan of Action:	Repair or replace damaged piping at the noted locations. Repairs and replacements must comply with NFPA 14 and NFPA 25.	
Suggested Deadline Date:	22 Nov 2014	
Standard:	NFPA 25 Chapter 6 Standpipe and Hose Systems	
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:	Detection system is monitored centrally but not connected to fire service and civil defense.	
Source of Findings:	Photograph: Photograph shows that, Detection system is monitored centrally but not connected to fire service and civil defense.	
Suggested Plan of Action:	As per section 5.7.5., 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 to alert this person.	
Suggested Deadline Date:	05 Jul 2014	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
Question:	Are inspection, maintenance, and testing procedures of the standpipe and hose system documented and up to date? Including inspection and testing of hoses if provided.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Inspection, maintenance, and testing procedures of the standpipe and hose system were not documented and up to date.	
Source of Findings:	Document Review: Documents review shows that, No relevant document was found.	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the standpipe and hose system. Program must comply with the requirements of NFPA 25	
Suggested Deadline Date:	30 Aug 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:	Only 25mm plastic hose connection installed inside all floor through out the building and also signage but class-1 standpipe at stairwells and sign not provided.
Source of Findings:	Photograph: Photograph shows the signage for standpipe inside floor.
Suggested Plan of Action:	Install required identification signs at required locations and on required equipment. Signage must comply with NFPA 14 Chapter 6.
Suggested Deadline Date:	19 Jul 2014
Standard:	Reference NFPA 14 Chapter 6



Means of Egress


Question:	All doors in a means of egress are of the side-hinged swinging type.
Priority Level:	High
Non-Compliance Level:	3
Description:	All the doors were collapsible and sliding types.
Source of Findings:	Photograph: Photograph shows that all the doors were collapsible and sliding types.
Suggested Plan of Action:	Replace all non-compliant doors and frames in the means of egress with doors that are listed, approved, automatic-closing, side-swinging, fire rated doors in compatible fire rated frames with latching panic hardware.
Suggested Deadline Date:	30 Aug 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates



Question:	Aisles are provided with the minimum unobstructed clear width of 0.9 m (36 in) based on occupant loads.
Priority Level:	High
Non-Compliance Level:	2
Description:	Aisles all over the factory were found to be satisfactory, but on 5th floor some aisles were found obstructed by steel columns which reduces the width to less than 0.9 m.





Source of Findings:	Photograph: Photograph shows that some aisles on the 5th floor are obstructed by steel column.	
Suggested Plan of Action:	Remove existing aisle marking and draw new marking providing the minimum aisle width requirement. Relocate the equipment accordingly, if necessary.	
Suggested Deadline Date:	30 Aug 2014	
Standard:	Higher occupancy loads will require a greater width to accommodate the increased load. Alliance Standard Part 6 Section 6.5 Egress Width	
Question:	The path of egress along the means of egress is not reduced at any point along the path of travel and is sufficient for the occupant load.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	At 5th floor, steel columns were found to reduce the width of some of the aisles.	
Source of Findings:	Photograph: Photograph shows some locations where steel columns reduce the width of the aisle.	
Suggested Plan of Action:	Remove existing aisle marking and draw new marking providing the minimum aisle width requirement. Relocate the equipment accordingly, if necessary.	
Suggested Deadline Date:	30 Aug 2014	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	
Question:	Means of egress are free from impediments, obstructions, and stored materials.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Stair is free from impediments, obstructions, and stored materials but on the 5th floor some aisles were found obstructed by steel column.	
Source of Findings:	Photograph: Photograph shows that some aisles on the 5th floor were obstructed by steel column.	
Suggested Plan of Action:	Remove existing aisle marking and draw new marking providing the minimum aisle width requirement. Relocate the equipment accordingly, if necessary.	
Suggested Deadline Date:	30 Aug 2014	
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability	



Question:	Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.
Priority Level:	High
Non-Compliance Level:	2
Description:	There are collapsible doors with locking arrangements at each egress locations, but they are not closed. This violates Alliance Standard Part 6 Section 6.8.2.
Source of Findings:	Visual Assessment: Collapsible doors with locking arrangement at each egress locations.
Suggested Plan of Action:	Remove all locking devices from all egress doors and means of egress components in accordance with Alliance Standard Section 6.8.
Suggested Deadline Date:	21 Jun 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates



Question:	Landings are provided with the same width in the direction of egress travel as the stair clear width provided at each level and at intermediate landings. Existing landings that are less than the stair width, shall reduce the overall available capacity of the stair.
Priority Level:	High
Non-Compliance Level:	2
Description:	In stair-2 located at (S-E) of main building, the width of stair is 6'-4", but landing width is 5'-10.
Source of Findings:	Photograph: Photograph shows that, In stair-2 located at (S-E) of main building, the width of stair is 6'-4", but landing width is 5'-10.
Suggested Plan of Action:	Increase the landing width to make it equal to the width of the stair following the requirements of Alliance Standard Part 6 Section 6.9 and Section 6.5.
Suggested Deadline Date:	30 Aug 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and Section 6.5



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:	3
Description:	The Illuminated exit signs were found only at Exit doors.





Source of Findings:	Photograph: Photograph shows that the illuminated exit signs were found only at Exit doors.	
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:	22 Nov 2014	
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:	3	
Description:	No record found for functional testing of battery powered lights for a minimum 90 min once per year.	
Source of Findings:	Document Review: No relevant document was found.	
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:	05 Jul 2014	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
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 building was 6 storied and hence as per Alliance standard need to install re-entry door.	
Source of Findings:	Visual Assessment: Visual assessment shows that no re-entry provided in the main factory building.	
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 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:	30 Aug 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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:	2	
Description:	Parapet wall height is 36" which does not comply demanded in Alliance Standard Part 6 Section 6.12.2.4.	
Source of Findings:	Photograph: Photograph shows that parapet wall height is 36"	
Suggested Plan of Action:	Provided parapets or guards for all occupied roofs of a minimum height of 1067 mm (42 in.) as required in Alliance Standard Part 6 Section 6.12.2.4.	
Suggested Deadline Date:	22 Nov 2014	
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:	2	
Description:	Occupant loads are not posted in production floors near the main point of egress.	
Source of Findings:	Visual Assessment: Visual assessment shows that occupant loads are not posted in production floors 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:	05 Jul 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:	Emergency lighting was found only at exit door that was not industrial grade.
Source of Findings:	Photograph: Photograph shows that emergency light was found only at exit door that was not industrial grade.
Suggested Plan of Action:	Install emergency lighting for all paths of egress in accordance with Alliance Standard Section 6.7. Illumination shall be a minimum of 10 lux for all corridors, exit doors, and stairways. Aisles shall be provided with a minimum 2.5 lux.
Suggested Deadline Date:	22 Nov 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:	Emergency power for means of egress illumination is verified at least once per year. If battery operated lights are used, these lights are tested on a monthly basis. Functional testing of battery powered lights is provided for a minimum 90 min once per year.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	No record found for functional testing of battery powered lights for a minimum 90 min once per year.
Source of Findings:	Document Review: No record found for functional testing of battery powered lights for a minimum 90 min once per year.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all existing egress lighting is verified at least once per year. If battery-operated lights are used, they 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:	05 Jul 2014
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting
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:	None of the stairs having both sides handrails.
Source of Findings:	Photograph: Photograph shows that none of the stairs having both sides handrails.
Suggested Plan of Action:	Provide handrails on both side of each stairway. Provide intermediate handrail when the stair width exceeds 2.2m (87 inch). Provide handrail of height between the range 865 mm (34 in.) and 965 mm (38 in.).
Suggested Deadline Date:	22 Nov 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards
Question:	Exit signs have appropriate illumination levels and contrasting graphics.
Priority Level:	Low
Non-Compliance Level:	3
Description:	Exit signs have no appropriate illumination levels and contrasting graphics.
Source of Findings:	Photograph: Photograph shows that exit signs do not have appropriate illumination levels and contrasting graphics.
Suggested Plan of Action:	All required exit signs shall be 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/m ² may also be used.
Suggested Deadline Date:	22 Nov 2014
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:	2
Description:	No stair designation sign was found at each floor entrance from the stair to the floor in English and Bengali.
Source of Findings:	Photograph: Photograph shows that, no stair designation sign 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:	05 Jul 2014





Standard:	Alliance Standard Part 6 Section 6.9 Stairs
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Fire Safety Programs

Question:	Are there additional areas of non-compliance to report?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Childcare located at 1st floor adjacent to production floor without proper fire barrier. Also, the childcare area does not have direct access to an exit enclosure.
Source of Findings:	Visual Assessment: Childcare located at 1st floor is adjacent to production floor without proper fire barrier. Also, does not have direct access to an exit enclosure.
Suggested Plan of Action:	Provide direct access to an exit enclosure for the childcare area or relocate use to the ground floor.
Suggested Deadline Date:	31 Jul 2014
Standard:	Not Applicable



Question:	Chemicals and other flammable materials are stored within approved enclosures.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Chemicals and flammable materials are stored at non rated structure beside Generator shed.
Source of Findings:	Photograph: Chemicals and flammable materials are stored at open non rated structure.
Suggested Plan of Action:	Store flammable chemicals away from combustible materials in designated areas and/or in a flammables cabinet or room with sufficient fire rated construction.
Suggested Deadline Date:	21 Jun 2014
Standard:	





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 cutting section of the main building.	
Source of Findings:	Photograph: Photograph shows the Fabrics stored underneath the cutting tables of cutting section of the main building.	
Suggested Plan of Action:	Remove all combustibles fabrics underneath the cutting tables at the noted locations.	
Suggested Deadline Date:	30 Aug 2014	
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	An emergency evacuation plan has been developed and communicated to all employees.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No record of developing and communicating any emergency evacuation plan has been found.	
Source of Findings:	Document Review: No record of developing and communicating any emergency evacuation plan has been 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. The guideline of BNBC in Appendix	
Suggested Deadline Date:	05 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No record of training program was available in accordance with the Alliance Safety Training Curriculum on fire safety.	
Source of Findings:	Document Review: No record of training program available on fire safety.	
Suggested Plan of	Impart training in accordance with Alliance Safety Training Curriculum and	



Action:	keep record with proper documentation.	
Suggested Deadline Date:	05 Jul 2014	
Standard:	Alliance Standards Part 13	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	Fire Department pre-planning has not been completed yet.	
Source of Findings:	Document Review: Fire Department pre-planning has not been completed yet.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	05 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	No viable documentation or physical presence of Fire Safety Director was noted. However factory has claimed that they have a designated person for this.	
Source of Findings:	Document Review: No documents found related this.	
Suggested Plan of Action:	According to Alliance Standard,Part-13, Section-13.1 and 13.1.1, 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.	
Suggested Deadline Date:	22 Nov 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Are all applicable permits up to date including Fire License & Boiler License.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Building layout is not approved. Electrician license, fire protection plumbing layouts are not available.	
Source of Findings:	Document Review: Documents review shows that,Building layout is not	



	approved. Electrician license, fire protection plumbing layouts are not available.	
Suggested Plan of Action:	Collect all approvals and license from the appropriate authorities in an expedited manner.	
Suggested Deadline Date:	05 Jul 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Hot-work is not going on in the factory. Yet hot work permit program needs to be established. It is required as per Alliance Standards Part 13 Section 13.4.	
Source of Findings:	Document Review: Documents shows, no hot-work permit program has been established	
Suggested Plan of Action:	Develop a hot work permit program. The program must comply with the requirements of NFPA 51B.	
Suggested Deadline Date:	22 Nov 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	