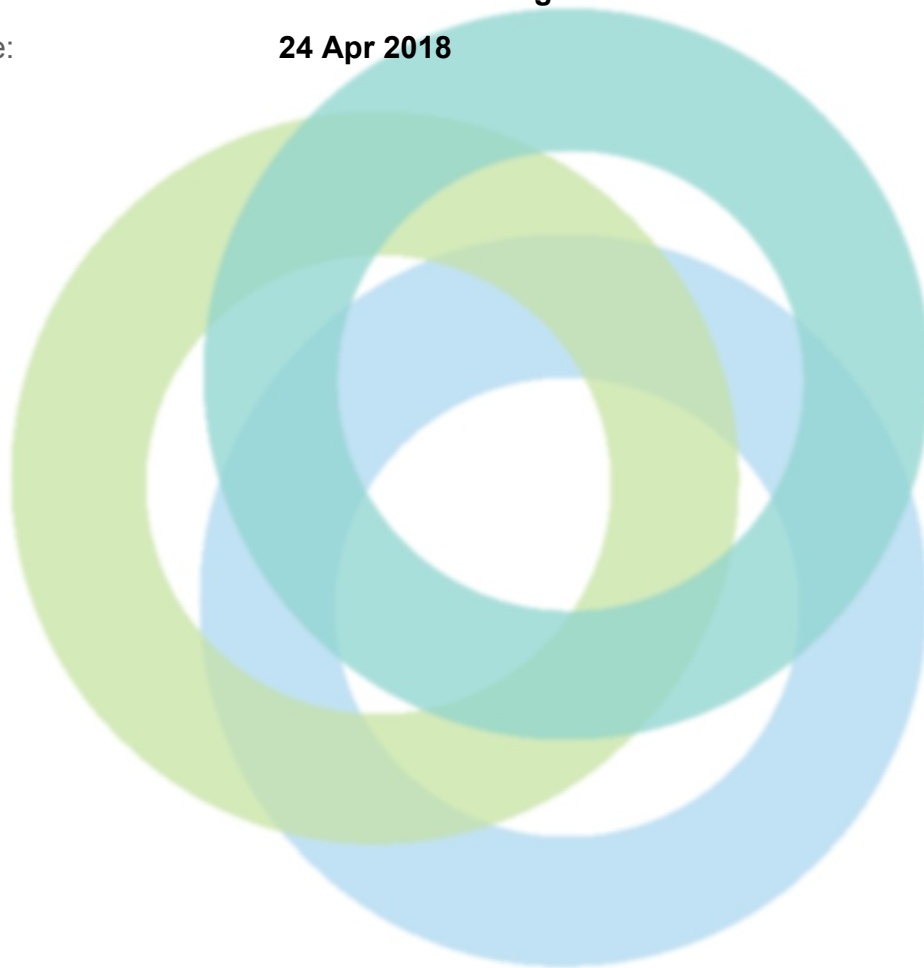


INITIAL FIRE SAFETY ASSESSMENT

Factory Name: **Sun Fashion Wear Ltd.**
Address: **Allai Ward No: 01 Patiya Chittagong Bangladesh**
Assessor: **Uttaron Technologies**
Date: **24 Apr 2018**





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:	Sun Fashion Wear Ltd.
Address:	Allai Ward No: 01 Patiya Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Patiya
Zip Code:	PO 4370
Audit Duration:	1 Days 0 Hours
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	30/04/2018
Final Report Date:	05/06/2018
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 7 buildings in the complex, out of them one is 3 storied main building, which is partially build dining facilities at 2nd floor and six are ancillary structures as per information given by the owner's representative. In this expansion audit, 3 storied main Production Building, Boiler Building, Substation Building, Fire and Security Building, Pump House have been assessed. Guard Rooms 1 and 2 found incomplete and under construction during this initial inspection. Therefore, these buildings were not assessed. Main Building: - 1. 3 storied main Production Building Ancillary Building: - 1. Boiler Building 2. Substation Building 3. Fire and Security Building 4. Pump House 5. Guard Room-1 (under construction) 6. Guard Room-2 (under construction)
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	Total five nos. were assessed in this initial assessment including 3 storied main production building and four are ancillary structures as per information given by the owner's representative. In this expansion audit, 3 storied main Production Building, Boiler Building, Substation Building, Fire and Security Building, Pump House have been assessed. Guard Room 1 and 2 found incomplete and under construction during this initial inspection. Therefore, these rooms were not assessed. 1. 3 storied main Production Building- 3 storied, R.C.C. building. 2. Boiler Building- 1 storied, R.C.C. building. 3. Substation Building- 1 storied, R.C.C. building. 4. Fire and Security Building- 1 storied, R.C.C. building. 5. Pump House- 1 storied, R.C.C. building.
Approximate Building Area (SF):	1. 3 storied main Production Building, R.C.C. building = 42,000 X2 (GF and 1st Floor) + 26,000 (2nd Floor)= 1,10,000 sft.
Date of Building Construction:	Year of construction 2017.
Date of Last Building Renovation/Addition:	There is no renovation work done after construction.
Ancillary Structures in Complex:	There are four ancillary structures assessed during this initial inspection. Ancillary Buildings: - 1. Boiler Building- 1 storied, R.C.C. building. 2. Substation Building- 1 storied, R.C.C. building. 3. Fire and Security Building- 1 storied, R.C.C. building. 4. Pump House- 1 storied, R.C.C. building.
Approximate Ancillary Structures Area (SF):	Total 4 nos. of Ancillary Structures: - 1. Boiler Building, 1 storied, R.C.C. building= 758.50 sft. 2. Substation Building, 1 storied, R.C.C. building= 1,100 sft. 3. Fire and Security Building 1 storied, R.C.C. building= 3,552.50 sft. 4. Pump House, 1 storied, R.C.C. building= 1,158.25 sft.
Number of Occupants:	Total occupants= 1,646 persons: 1. 3 storied main Production Building- GF=400+1st Floor+750+2nd Floor=450. Total= 1,600 persons 2. Boiler Building= 2 persons. 3. Substation Building= 2 persons. 4. Fire and Security Building= 40 persons 5. Pump House= 2 persons
Number of Ancillary Levels (Stories):	All ancillary buildings are single storied except Fire & Security which are two storied.

Factory Name: **Sun Fashion Wear Ltd.**

Address: **Allai Ward No: 01 Patiya Chittagong Bangladesh**

Assessor: **Uttaron Technologies**

Date: **24 Apr 2018**



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Occupancy Type:	1. 3 storied main Production Building- GF (Finished Goods Store, Offices)= H2 and F1, and 1st Floor (Production Floor)= G2, 2nd Floor Dinning= E3. 2. Boiler Building= K1. 3. Substation Building= J1. 4. Fire and Security Building= F1. 5. Pump House= K1. 6. Guard Room-1 (under construction)= F1. 7. Guard Room-2 (under construction)= F1.
Construction Type:	Buildings are constructed by R.C.C slabs, beams, columns and tie beams supported by cast in situ piles. 1. 3 storied main Production Building- GF, 1st Floor and 2nd Floor Dinning= Type1. 2. Boiler Building= Type2. 3. Substation Building= Type2. 4. Fire and Security Building= Type2. 5. Pump House= Type2. 6. Guard Room-1 (under construction)= Type2. 7. Guard Room-2 (under construction)= Type2.
Height of Highest Occupied Floor Level Above Grade:	1. 3 storied main Production Building= 24 feet.



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	1
Description:	Closing or sealing of opening/penetration of a protected space is required to restrict the spreading of fire.
Source of Findings:	Visual Assessment: Some penetrations/openings were not sealed properly.
Suggested Plan of Action:	Provide fire-resistive rated penetration protection for rated walls and assemblies in accordance with Alliance Standard Sections 4.6 and 4.7. Consult a qualified fire protection engineer to design the required penetration systems.
Suggested Deadline Date:	15 Jun 2018
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations



Fire Protection Systems

Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	Standpipe systems shall be installed throughout all new and existing buildings and structures where the highest occupied floor is more than 10 m (33 ft) above grade or more than 10 m (33 ft) below grade. But the maximum travel distance to reach an exit is around 80 feet found in 3 storied production building.
Source of Findings:	Visual Assessment: Normally a Standpipe System is not required according to Alliance standard 5.4.2. in Production building as occupied floor height is less than 33 ft. But the maximum travel distance to reach an exit is around 80 feet found in 3 storied production building, maximum occupancy is 750 person with 7 nos. of means of egress are available.
Suggested Plan of Action:	Install a standpipe system at required locations designed by a qualified fire protection engineer. Standpipe system must comply with the requirements of NFPA 14.
Suggested Deadline Date:	31 Dec 2018
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:	A fire pump is a water pumping system which will deliver water at the fire hose nozzle and/or sprinkler system at a specified pressure.
Source of Findings:	Visual Assessment: A fire pump system is not found in the factory premises.
Suggested Plan of Action:	Install a dedicated fire pump for the facility in accordance with NFPA 20. Also, to supply the demands of the connected fire protection systems along with a





	stored source of water sufficient to meet the demands in accordance with NFPA 22. Fire pump installation is to be tested for final acceptance in presence of Alliance and a final inspection of the installation shall be conducted by the Alliance prior to final acceptance of the installation by the Alliance as per clause 5.5.5. Acceptance testing of the installation shall be in accordance with NFPA 20, 22, and 25 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance by the Alliance.	
Suggested Deadline Date:	31 Dec 2018	
Standard:	Alliance Standard Part 5 Fire Protection Systems	
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Fire department (Siamese) inlet connections shall be provided to allow fire department pumper equipment to supplement the fire protection systems. 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.	
Source of Findings:	Visual Assessment: A Standpipe System is required in Production building to minimizing the travel distance for highly occupied floor. Fire department (Siamese) connections are not provided yet.	
Suggested Plan of Action:	Provide Fire Department (Siamese) connections in accordance with Alliance Standard Section 5.5.4. Connections shall match the Fire Service and Civil Defence hose thread standard.	
Suggested Deadline Date:	31 Dec 2018	
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Means of Egress		
Question:	Travel distance to reach an exit does not exceed the maximum distance allowed by Occupancy Type.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Ground or Basement= 50 occupants and 23 m (75 ft) travel distance for Second story= 30 occupants and 23 m (75 ft) travel distance. Travel distance limitations for G2 (RMG factories) shall be increased to 60 m (200 ft) where a complete automatic fire detection system, portable fire extinguishers, and standpipe system are provided in accordance with the Alliance Standard. Travel distance limitations for G2 (RMG factories) shall be increased to 122 m (400 ft) where a complete automatic sprinkler system, automatic fire alarm system, and portable fire extinguishers are provided in accordance with the Alliance Standard.	
Source of Findings:	Visual Assessment: The maximum travel distance to reach an exit is around 80 feet. In 3 storied production building, maximum occupancy is 750 person with 7 nos. of means of egress are available.	
Suggested Plan of Action:	Install a standpipe system at required locations designed by a qualified fire protection engineer. Standpipe system must comply with the requirements of NFPA 14.	
Suggested Deadline Date:	31 Dec 2018	
Standard:	Alliance Standard Part 6 Section 13 Travel Distance and BNBC Part 4 Section 3.15.1	



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:	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious.	
Source of Findings:	Visual Assessment: During assessment, we didn't find any exit signs are placed at entrances to exits and 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:	30 Jun 2018	
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs	
Question:	Illuminated exit signs are provided with battery backup or emergency power and are continuously illuminated.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Lighting for exit signs shall either be provided with emergency power or battery backup.	
Source of Findings:	Visual Assessment: Illuminated exit signs are not installed yet in 3 storied production building. During assessment, we didn't find any exit signs are placed at entrances to exits and along the path of egress. Only two exit signs found in Admin building which are also non-functional.	
Suggested Plan of Action:	Provide an emergency power source, either by battery back or up or by connecting to the emergency power system, for illuminated exit signs.	
Suggested Deadline Date:	30 Jun 2018	
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:	Emergency power for exit signs should be 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.	
Source of Findings:	Visual Assessment: No testing plan and records were available during this visit. Because Illuminated exit signs are not installed yet in 3 storied production building. During assessment, we didn't find any exit signs are placed at entrances to exits and along the path of egress. Only two exit signs found in Admin building which are also non-functional.	
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:	30 Jun 2018	



Standard:	Alliance Standard 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:	1	
Description:	Emergency/backup power for egress point illumination should be verified at least once per year.	
Source of Findings:	Visual Assessment: Emergency/backup power system is installed in the factory but found non-functional. No testing plan and records were available during this visit	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for all egress lighting is tested at least once per year. If battery operated lighting are used, these lights are tested on a monthly basis. Functional testing of battery powered lighting is provided for a minimum 90 min once per year.	
Suggested Deadline Date:	30 Jun 2018	
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	
Question:	Exit signs have appropriate illumination levels and contrasting graphics.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	The means of egress paths shall be illuminated at all times the building is occupied. 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.	
Source of Findings:	Visual Assessment: Illuminated exit signs are not installed yet in 3 storied production building. During assessment, we didn't find any Exit signs are placed at entrances to exits and along the path of egress. Only two exit signs found in Admin building which are also non-functional.	
Suggested Plan of Action:	Install Illuminated exit signs at entrances to exits and along the path of egress and exit signs should be appropriate illumination levels.	
Suggested Deadline Date:	30 Jun 2018	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs	
Fire Safety Programs		
Question:	Are the required number of people trained and certified in fire fighting, first aid, and rescue training by the appropriate authority.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	The required number of people should have training and certificates in fire fighting, first aid, and rescue training by the appropriate authority.	
Source of Findings:	Visual Assessment: Fire fighting and safety training process hasn't started yet.	
Suggested Plan of Action:	Train and certify the required number of people in fire fighting, first aid, and rescue training by the appropriate authority in accordance with the Alliance Safety Training Curriculum.	
Suggested Deadline Date:	22 May 2018	



Standard:	Alliance Standard Part 13 Human Element Programs	
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Training programs should be implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Source of Findings:	Document Review: No document was shown during inspection., Visual Assessment: The factory has not received the Alliance Safety Training Curriculum at the time of the assessment and has not conducted safety training curriculum per Alliance Standards Part 13.	
Suggested Plan of Action:	Training programs need to be implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Suggested Deadline Date:	22 May 2018	
Standard:	Alliance Standards Part 13	
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	Position of fire safety director has been filled. 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 13.10. (4) Ensure all testing of fire protection equipment is conducted in accordance with 13.11.	
Source of Findings:	Visual Assessment: A Fire Safety Director position has not been filled yet.	
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.	
Suggested Deadline Date:	30 Jun 2018	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	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 13.9. (4) Ensure all testing of fire protection equipment is conducted in accordance with 13.10.	
Source of Findings:	Visual Assessment: Fire department pre-planning has not been completed and communicated yet.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	22 May 2018	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	

Factory Name: **Sun Fashion Wear Ltd.**
Address: **Allai Ward No: 01 Patiya Chittagong Bangladesh**

Assessor: **Uttaron
Technologies**
Date: **24 Apr 2018**



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