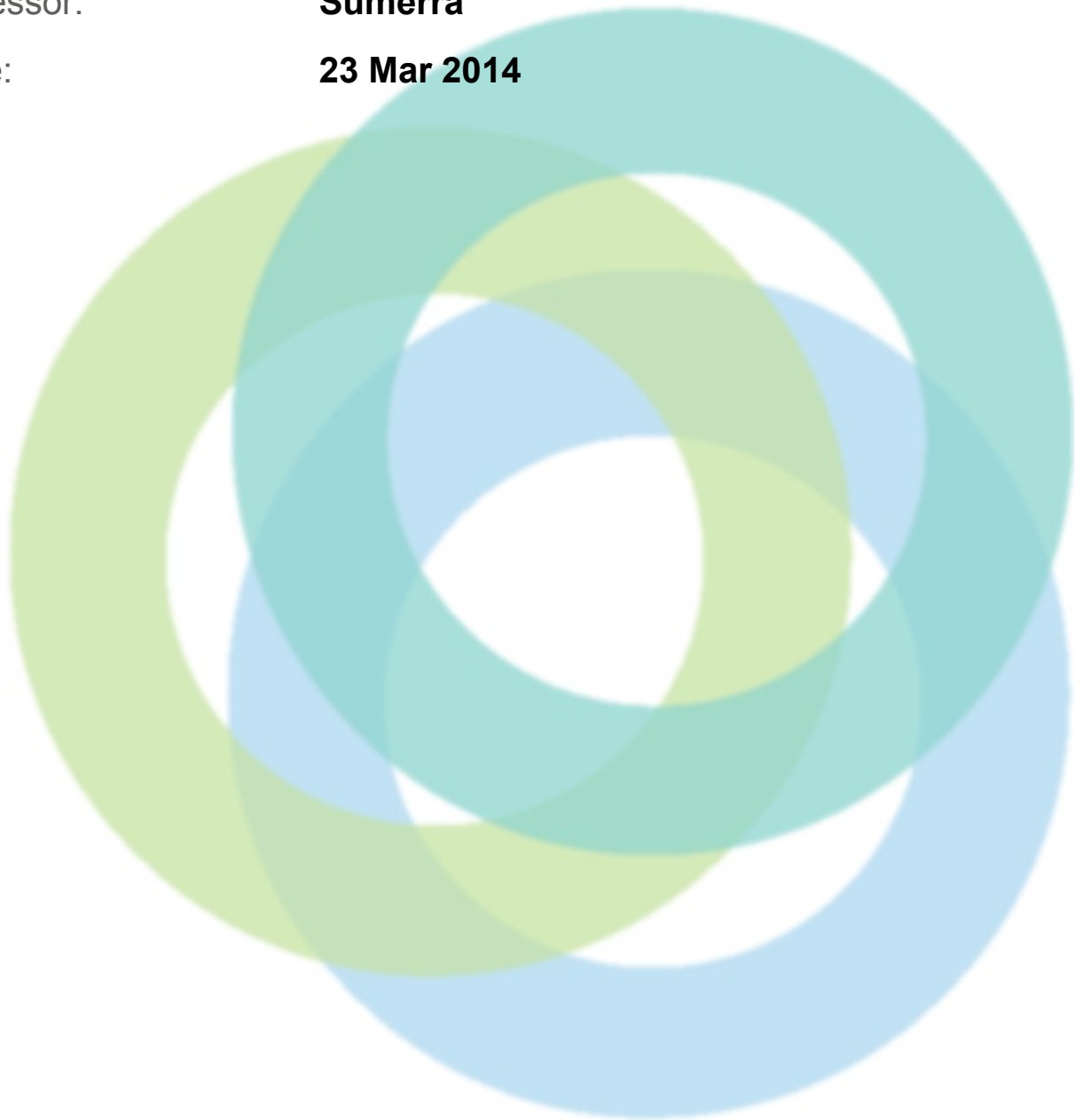


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **AJ Super Garments Ltd (Woven)**
Address: **Aj Garden, Goshbagh Zirabo Zirabo, Savar Savar
Dhaka Bangladesh**
Assessor: **Sumerra**
Date: **23 Mar 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.



Factory Name: **AJ Super Garments Ltd (Woven)**

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ALLIANCE
FOR BANGLADESH WORKER SAFETY

GENERAL INFORMATION

General Information

Factory Name:	AJ Super Garments Ltd (Woven)
Address:	Aj Garden, Goshbagh Zirabo Zirabo, Savar Savar Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Savar
Zip Code:	1341
Audit Duration:	2 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	April 8, 2014
Final Report Date:	May 12, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	Main / Annex Child Care Waste Generator
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	6
Approximate Building Area (SF):	160,800
Date of Building Construction:	Construction started in 2004 & completed up to 5th floor in 2007.
Date of Last Building Renovation/Addition:	
Ancillary Structures in Complex:	Child Care Waste Room Generator Room
Approximate Ancillary Structures Area (SF):	3604 sft
Number of Occupants:	2536

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Number of Ancillary
Levels (Stories):

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:	Exit enclosures are not provided with fire-resistive rated construction barriers Alliance Standards Part 4 Section 4.5 Separation. Exits are not protected by fire doors. Factory has a horizontal exit with open air bridge between Main and Annex building. No fire rated doors are provided as per BNBC Part 4 3.12. In east stairwell adjacent east window of factory floor is not fire protected.	
Source of Findings:	Photograph: Photo of horizontal exit., Visual Assessment: Fire-resistive rated construction barriers not observed at exit enclosures	
Suggested Plan of Action:	Factory will need to install fire rated door assemblies at all exits (1.5 hour rating). Fire doors assemblies shall conform to NFPA 252, BS 476 Part 22, EN 1364-1, GB 12955-2008, or IS 3614. Part II. Doors must remain in closed position or be of self-closing type. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons. For the horizontal exit, door should be self closing and have two leaves opening in opposite directions. In east stairwell, the building exterior walls within 3050 mm (10 ft) horizontally of the unprotected openings (windows) should be constructed to have a fire-resistance rating of not less than 1 hr and openings within such exterior walls (such as windows) shall be protected by opening protectives having a fire protection rating of not less than ¾ hr. Factory can install fire rated windows or seal openings in exterior wall. Unprotected openings in stairwells may be sealed to assure continuous fire rating of exit enclosure.	
Suggested Deadline Date:	03 Jun 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:	Boiler room does not meet requirement for 1-hour rated construction. No fire rated door assembly is present and other unprotected penetrations (windows) are present per Alliance Standards Part 4 Section 4.5. Transformer is located in same room with generator.	
Source of Findings:	Visual Assessment: Observed boiler room and transformer areas. Insufficient separations observed.	



Suggested Plan of Action:	A room housing boilers shall be separated from other occupancies by minimum 1 hour construction. Install appropriate 1-hour fire rated door assembly. Seal and/or protect all openings including windows to maintain the required fire separations. Consult a qualified fire protection engineer to design the required rated construction barrier. Oil filled transformers for non high-rise buildings shall be separated by a minimum 2 hour fire resistive rated construction. Consult a qualified fire protection engineer to design the required rated construction barrier.	
Suggested Deadline Date:	03 Jun 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Occupancy Type	
Priority Level:		
Non-Compliance Level:		
Description:		
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:		
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:	
Source of Findings:	
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 fire pump?
Priority Level:	High
Non-Compliance Level:	3
Description:	Other than manual submersible pump to lift water from deep tubewell to overhead tank, there is no fire pump for the standpipe system.
Source of Findings:	Photograph: Manual pump
Suggested Plan of Action:	Revise existing standpipe system to include a rated fire pump evaluated against requirements of NFPA 20 by a qualified fire engineer. All valves controlling fire pumps systems shall be electrically supervised by fire alarm system control unit.
Suggested Deadline Date:	23 May 2014
Standard:	Alliance Standard Part 5 Fire Protection Systems



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:	The factory has only a manual alarm system with single point smoke detectors installed. An automatic fire alarm and detection system shall be provided throughout all existing moderate hazard industrial occupancies per Alliance Standard 5.7.3.6 (An automatic fire alarm and detection system shall be provided throughout all new and existing moderate hazard industrial occupancies).
Source of Findings:	Visual Assessment: Manual alarm system with single point smoke detectors observed.
Suggested Plan of	Replace the single-station smoke alarms with automatic smoke detectors tied



Action:	into an automatic fire alarm system located in accordance with NFPA 72. Configure the fire alarm system to initiate occupant notification upon activation of any smoke detectors in addition to the manual fire alarm stations. Detectors should be placed in accordance with requirements of NFPA.
Suggested Deadline Date:	03 Jun 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:	Are fire department connections provided and clearly identified for the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	No fire department connection was available for fire hose system (only Class II connections were available).
Source of Findings:	Visual Assessment: No fire department connection was observed.
Suggested Plan of Action:	Fire department (Siamese) inlet connections shall be provided to allow fire department pumper equipment to supplement the fire protection systems. Connections shall match the Fire Service and Civil Defence hose thread standard. Install identifications for fire department connections as per NFPA 14 (e.g. sign on Fire Department connection indicating STANDPIPE in 1 in lettering, etc and noted as fire department connection.)
Suggested Deadline Date:	03 Jun 2014
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections
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:	The fire alarm and detection system is not monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense as per Alliance Standard Part 5 Section 5.7.5 Monitoring. System is manual alarm system that is not actively monitored.
Source of Findings:	Visual Assessment: No automatic fire detection and alarm system is installed.
Suggested Plan of Action:	As noted elsewhere, factory should install automatic fire detection system. Arrange for direct connection of the fire alarm and detection 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 Defence 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:	03 Jun 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:	3	
Description:	The standpipe system has not been evaluated for compliance with the design pressure and flow demands of NFPA 14 or BNBC as per Alliance Standard 5.4.3.	
Source of Findings:	Document Review: No shop drawing, design drawings or testing data available for review.	
Suggested Plan of Action:	The standpipe system needs to be evaluated for compliance with the design pressure and flow demands of NFPA 14 or BNBC as cited in 5.4.3. Standalone standpipe systems shall be confirmed to meet the local BNBC requirements with a minimum 450 kPa (65 psi) pressure at the hydraulically most remote hose connection or NFPA 14. This testing should be documented and available for review.	
Suggested Deadline Date:	03 Jun 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:	3	
Description:	Valves and valve cabinets do not have labeling or signage. No Hydraulic design information sign is available.	
Source of Findings:	Visual Assessment: No signage observed for the standpipe system.	
Suggested Plan of Action:	Assure signage and labeling for all standpipe system components is per NFPA 14 Chapter 6. Including: identification of all valves with indication of what service they control, valve cabinets should be marked to include their contents, signs indicating the hydraulic design (e.g. location of most remote hose connections, design flow rate, inlet and outlet pressure, and design static pressure)	
Suggested Deadline Date:	03 Jun 2014	



Standard: Reference NFPA 14 Chapter 6

Means of Egress

Question: Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.

Priority Level: High

Non-Compliance Level: 3

Description: Doors have locks which are not in compliance with Alliance Standards Part 6 Section 6.8 Doors and Gates

Source of Findings: Photograph: egress door

Suggested Plan of Action: Remove all locking devices form all doors to exits / means of egress. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.

Suggested Deadline Date: 03 Jun 2014

Standard: Alliance Standards Part 6 Section 6.8 Doors and Gates

Question: All doors in a means of egress are of the side-hinged swinging type.

Priority Level: High

Non-Compliance Level: 3

Description: All doors in a means of egress are in violation of Alliance Standards Part 6 Section 6.8 Doors and Gates. All exit doors are sliding type doors.

Source of Findings: Photograph: Collapsible Door

Suggested Plan of Action: Remove all collapsible gates at the exit stairs and along all portions of the means of egress. Replace with side-hinged swinging type doors in compliance with Standard (see other actions regarding fire rated door assemblies).

Suggested Deadline Date: 03 Jun 2014

Standard: Alliance Standards Part 6 Section 6.8 Doors and Gates

Question: Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.

Priority Level: High

Non-Compliance Level: 3

Description: Exterior exit stairs are not compliant with Alliance Standard Part 6 Section 6.3.1.2. Exterior stair (North) discharges next to Fusing room. The Fusing





	room is not fire rated and it is less than 3 ft from stair discharge.	
Source of Findings:	Visual Assessment: Exterior stair (North) discharge observed next to Fusing room which is not fire rated and it is less than 3 ft from stair discharge	
Suggested Plan of Action:	Provide a fire-resistive rated assembly between the exterior exit stairs and the building to achieve the required separation. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure. A fire rated door assembly (1.5-hr fire-resistance rating) will be required for fusing room door exit. The rated assembly should be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	03 Jun 2014	
Standard:	Alliance Standard Part 6 Section 6.3.1.2. Three stories or less 1-hr rating. Four stories of more 2-hr rating	
Question:	Interior exit stairways and ramps terminate at an exit discharge except where terminating at a rated exit passageway.	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	East exit stair discharges into unprotected interior area in violation of Alliance Standard Part 6 Section 6.14 Exit Enclosures	
Source of Findings:	Visual Assessment: Observed east exit stair discharge into unprotected interior area	
Suggested Plan of Action:	Provide a rated exit passageway between stairs and final exit discharge.	
Suggested Deadline Date:	03 Jun 2014	
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	No loads are posted as per Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Source of Findings:	Visual Assessment: No occupant load postings observed.	
Suggested Plan of Action:	Post maximum occupant load for all areas (near exit)	
Suggested Deadline Date:	06 May 2014	



Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Handrails are provided on only one side of stairwell in violation of Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Source of Findings:	Photograph: One sided handrail	
Suggested Plan of Action:	Handrails shall be provided on both sides of each exit stairway. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread.	
Suggested Deadline Date:	03 Jun 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
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 not placed at exit stairs per Alliance Standard Part 6 Section 6.11 Exit Signs. However, continuation of egress is not obvious in certain exits, e.g. east side ground floor. Occupants may be confused.	
Source of Findings:	Visual Assessment: Illuminated exit signs no observed at all exit stairs	
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 (e.g. east side ground floor) or there is a change in the direction of the path of travel.	
Suggested Deadline Date:	23 May 2014	
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Emergency lighting was provided for all paths of egress, however, no testing or certifying means for conformance to lighting standard (10 lux).	



Source of Findings:	Photograph: Inadequate illumination
Suggested Plan of Action:	Confirm through testing (light meter) or other certification that means of egress will have illumination of 10 lux for all corridors, exit doors, and stairways and 2.5 lux for all aisles. Illumination should last no less than 30 min in the event of failure of normal lighting.
Suggested Deadline Date:	23 Apr 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:	Changes in elevation of walking surfaces do not exceed 6.35 mm (1/4 in) unless provided with a beveled slope of 1 in 2 that does not exceed 12.7 mm (1/2 in).
Priority Level:	Medium
Non-Compliance Level:	1
Description:	In 3rd floor, horizontal exit (connecting steel passage between main building and Annex building) has higher slope than permitted by Alliance Standard Part 6 Section 6.3.4 Walking Surfaces.
Source of Findings:	Photograph: Photo of horizontal exit slope.
Suggested Plan of Action:	Adjust horizontal exit configuration to meet requirement of Alliance Standard Part 6 Section 6.3.4 Walking Surfaces (beveled slope of 1 in 2 that does not exceed 12.7 mm) and BNBC Part 4 3.12.4 (no steps in horizontal exit and slope should not exceed 1 vertical in 10 horizontal).
Suggested Deadline Date:	23 Jun 2014
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces
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:	1
Description:	Re-entry requirements have not been met per Alliance Standards Part 6 Section 6.8.3.1 as fire rated door assemblies with proper latching systems have not been installed. As noted in other areas, fire rated door assemblies are required for the exit enclosure.
Source of Findings:	Visual Assessment: Fire rated door assemblies with proper latching systems not observed.
Suggested Plan of Action:	During installation of fire rated door assemblies assure that every door in a stair enclosure serving more than 4 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.





Suggested Deadline Date:	03 Jun 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	Stair designation signs are provided at each floor entrance from the stair to the floor in English and Bengali. Signs indicate the name of the stair and the floor level. Signs are posted adjacent to the door.
Priority Level:	Low
Non-Compliance Level:	3
Description:	Signs indicating floor level are posted adjacent to the door, however, stairs have not been designated.
Source of Findings:	Visual Assessment: Signs indicating floor level were observed adjacent to the door, however, posting did not include stair designation.
Suggested Plan of Action:	Each stair should be designated with a unique identification (e.g. Stairwell 1). Signs indicate the name of the stair and the floor level in English and Bangla. Additionally, stair signs should indicate if there is or is not roof access from the named stair.
Suggested Deadline Date:	06 May 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs
Fire Safety Programs	
Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Storage was observed under cutting table in Annex building 4th floor.
Source of Findings:	Visual Assessment: Storage was observed under cutting table in Annex building 4th floor.
Suggested Plan of Action:	Storage underneath the cutting tables shall be kept clear of combustibles at all time as per Alliance Standard Part 17 Section 13.7.2 Cutting tables.
Suggested Deadline Date:	06 May 2014
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.
Question:	A hot-work permit program has been established.
Priority Level:	Low
Non-Compliance Level:	1

Factory Name: **AJ Super Garments Ltd (Woven)**

Address: **Aj Garden, Goshbagh Zirabo Zirabo, Savar Savar Dhaka Bangladesh**

Assessor: **Sumerra**

Date: **23 Mar 2014**



ALLIANCE
FOR BANGLADESH WORKER SAFETY

Description:	Factory has a verbal system (approval must be sought for hot work) however, no written permitting program as per Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	
Source of Findings:	Document Review: No written hot work permitting program available for review.	
Suggested Plan of Action:	Develop a written hot work permit program. The program must comply with the requirements of NFPA 51B	
Suggested Deadline Date:	03 Jun 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	