

INITIAL STRUCTURAL SAFETY ASSESSMENT - EXPANSION

Factory Name: **Adury Apparels Ltd.**
Address: **Karardi, Shibpur, Narsingdi, Narsingdi Dhaka
Bangladesh**
Assessor: **Shaheedullah**
Date: **08 Oct 2017**





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.



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GENERAL INFORMATION

General Information	
Factory Name:	Adury Apparels Ltd.
Address:	Karardi, Shibpur, Narsingdi, Narsingdi Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Narsingdi
Zip Code:	
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	12/10/2017
Final Report Date :	15/11/2017
Are all Action Items From Previous Assessment Completed?:	No
Buildings in Complex :	There are 6 production buildings/sheds & 3 ancillary buildings/sheds in the complex. Name of the production buildings/sheds are: 1.Six story RC building 2.Five story RC building 3.Two story steel building-2 4. Single story prefab Shed-7 5. Single story prefab Shed-8 6.Single story prefab shed-4 Name of the 3 ancillary buildings/sheds are: 1. Two story RCCbuilding-1 2. Two story RCC building-3 3.Single story prefab shed-3 5 production buildings/sheds and 3 ancillary buildings/sheds have been previously audited. Remaining 1production shed has been audited by us.
Number of Building Levels (Stories) :	1-storied steel shed above grade level.
Approximate Building Area (SF) :	Area is about 44700 sft.
Date of Building Construction :	2014-2015
Date of Last Building Renovation/Addition :	Not applicable
Is the Building mixed use?:	Yes
Ancillary Structures in Complex :	N/A

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Number of Ancillary Levels (Stories) :	N/A
Approximate Ancillary Structures Area (SF) :	N/A
Number of Occupants :	Total = 589 Persons.
Exterior Facade Description :	1-storied steel shed with 10" thick masonry wall, Aluminum window and Aluminum Louver.
Structural System Description :	1-storied steel shed: Frame work of the shed are steel purlins, steel Girders & and steel columns supported by cast-in-situ footings.
Issues were not found during the structural integrity assessment that required the Emergency Escalation Protocol (and referral to NTC Review Panel)?:	Yes



ASSESSMENT FINDINGS

Expansion Details

Question:	Are as-built drawings available for new structural safety features of the building?
Priority Level:	High
Non-Compliance Level:	
Description:	Since the expansion is neither vertical nor horizontal of pre-audited existing building, this issue is not applicable.
Source of Findings:	Document Review: Document review and Visual assessment.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard reference 8.20
Question:	Is there analytical confirmation and documentation that the foundations supporting the factory have adequate capacity to safely support the additional loads due to the expansion?
Priority Level:	High
Non-Compliance Level:	
Description:	Since the expansion is neither vertical nor horizontal of pre-audited existing building ,this issue is not applicable.
Source of Findings:	Visual Assessment: Visual assessment and Document review.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard reference 8.25.2
Question:	Does the extended portion of the building and the entire newly configured factory comply with Part 6 of the BNBC-2006?
Priority Level:	High
Non-Compliance Level:	
Description:	Since the expansion is neither vertical nor horizontal of pre-audited existing building ,this issue is not applicable.
Source of Findings:	Visual Assessment: Visual review.



Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard reference 8.1.3
Question:	Has the building expanded since the initial inspection? In the text box, please provide details on the changes and/or expansions that have taken place in the building(s) since the initial inspection. Report new construction, updated numbers of floors or buildings, etc.
Priority Level:	
Non-Compliance Level:	
Description:	
Source of Findings:	
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	
Structural System Design	
Question:	Are credible structural design documents available for review and kept on site?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Architectural and structural drawings were not available for review.
Source of Findings:	Document Review: Document review
Suggested Plan of Action:	Credible as-built Architectural and Structural drawings are to be prepared following Alliance Standard.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 8 Section 8.19 Required Structural Documentation for New and Existing Factories
Question:	Can credible structural documentation indicating general conformance with 2006 BNBC or other comparable applicable international model building code be produced?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Credible structural documentation indicating general conformance with BNBC 2006 has not been found.



Source of Findings:	Document Review: Document review
Suggested Plan of Action:	A qualified structural engineer shall be engaged to develop the required documents to confirm the structural integrity of the buildings. Documents must comply with Alliance Standard Part 8 Section 8.19 and 8.20
Suggested Deadline Date:	31 Dec 2017
Standard:	Reference Alliance Standards Part 8 Section 8.2 Structural Integrity of Existing Factory Buildings
Question:	If built after 2006, can documented compliance with the seismic and wind requirements of the 2006 BNBC be provided?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Documentation compliance with the seismic and wind requirements of BNBC 2006 has not been found.
Source of Findings:	Document Review: Document review
Suggested Plan of Action:	A qualified structural engineer shall be engaged to develop required documents in compliance with the seismic and wind requirements stated in the 2006 BNBC.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standards Part 8 Section 8.17 Design for Lateral Loads and 2006 BNBC Part 6 Section 1.5
Question:	Can documentation be provided that the building is compliant with the requirements for wind loading and storm surge loadings as detailed in BNBC Part 6 Section 1.5.3?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Documentation compliance with the requirements for wind loading and storm surge loadings as detailed in BNBC part6, section 1.5.3 has not been found.
Source of Findings:	Document Review: Document review.
Suggested Plan of Action:	Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading.
Suggested Deadline Date:	31 Dec 2017
Standard:	2006 BNBC Part 6 Section 1.5. Compliance may be waived if the Factory Owner provides satisfactory evidence of a cyclone operations plan that includes full evacuation of the factory in advance of any approaching cyclone"
Question:	Are Certificates of Occupancy available for review?
Priority Level:	Low



Non-Compliance Level:	2
Description:	Certificate of Occupancy is not available.
Source of Findings:	Document Review: Document review
Suggested Plan of Action:	Certificate of occupancy shall be obtained from appropriate authority.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 8 Section 8.3 Preliminary Structural Assessment

Structural Safety Programs

Question:	Is a program in place to ensure that the live loads for which a floor or roof is or has been designed will not be exceeded?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Floor load program for floors ensuring the live loads for which a floor has been designed has not been prepared.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Develop a program to ensure that all live loads for which a floor or roof has been designed for will not be exceeded. The designated Load Manager shall oversee this program and ensure it is enforced.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 13 Section 13.7 and Part 8 Section 8.9.
Question:	Have Load Plans been prepared for each floor documenting the actual maximum operational loading that is intended and/or allowable on each floor.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Floor load plans have not been prepared.
Source of Findings:	Document Review: Document review.
Suggested Plan of Action:	Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 8 Section 8.10 Floor Loading Plans (Load Plans)
Question:	Are Floor Load Plans posted as required?

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Priority Level:	Low
Non-Compliance Level:	2
Description:	Floor load plans have not been prepared.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Have a qualified structural engineer prepare load plans including the information required in Section 8.20 of the Alliance Standard. Floor load plans should be visibly posted on all levels of the building.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 8 Section 8.20.5.3
Question:	Are areas used for storage of work materials and work products, clearly marked to indicate the acceptable loading limits as described in the Load Plan for that floor?
Priority Level:	Low
Non-Compliance Level:	2
Description:	Load limits have not been marked.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Provide signage or the appropriate markings at all areas used for storage to indicate the acceptable loading limits detailed in the Load Plan.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 8 Section 8.11 Floor Load Markings