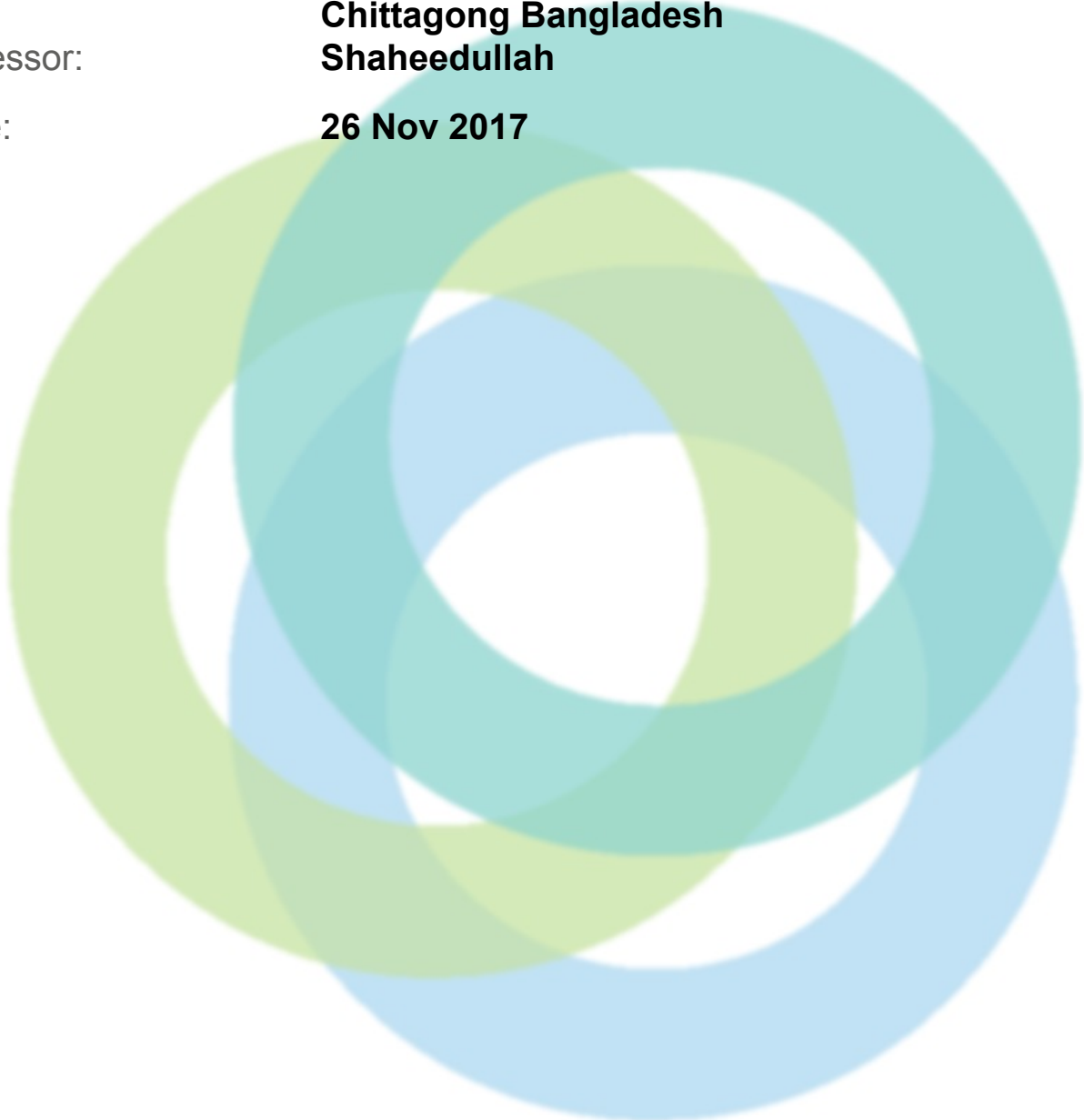


# INITIAL STRUCTURAL SAFETY ASSESSMENT - EXPANSION

Factory Name: **Intimate Apparels Ltd**  
Address: **Plot 91-93, Karnaphuli EPZ, Chittagong Chittagong  
Chittagong Bangladesh**  
Assessor: **Shaheedullah**  
Date: **26 Nov 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](http://www.bangladeshworkersafety.org).





## GENERAL INFORMATION

General Information	
Factory Name:	Intimate Apparels Ltd
Address:	Plot 91-93, Karnaphuli EPZ, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4204
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	20.11.2017
Final Report Date :	21.12.2017
Are all Action Items From Previous Assessment Completed?:	Yes
Buildings in Complex :	In addition to plot#91-93, KEPZ, factory activities have been expanded in a new building in another location on plot#15, KEPZ, under the same FFC ID 9387. There are 8 buildings in two locations under same FFC ID. Out of 8 buildings, 3 are production buildings and 5 are ancillary buildings. Out of 3 production buildings and 5 ancillary buildings, 2 production buildings (Building-1 and Building-2) and 1 ancillary building on plot#91-93 were audited by other QAFs. CAP closing Verification Visit (CCVV) report confirming 100% completed of CAP for those 2 production buildings and 1 ancillary building has been approved by Alliance on 19 August, 2017. 1 newly constructed production building (Building 3) and 4 ancillary buildings in plot#15 have been audited by us. Name of the production building is: 1) 3-storied Prefabricated Factory Building (Building#3).
Number of Building Levels (Stories) :	3-storied Prefabricated Factory Building: 3 storied above grade (G+2).
Approximate Building Area (SF) :	Area is about (3x11,640 = 34,920 sft).
Date of Building Construction :	2010
Date of Last Building Renovation/Addition :	No renovation or addition has been noticed.
Is the Building mixed use?:	Yes
Ancillary Structures in	There are 4 ancillary buildings. Name of the ancillary buildings are: 1) 1-storied Rc Security, Medical and



Complex :	Childcare Building. 2) 1-storied Rc Sub-station and Generator Building. 3) Overhead water tank over septic tank. 4) Pump House.
Number of Ancillary Levels (Stories) :	1) 1-storied Rc Security, Medical and Childcare Building: 1 story above grade. 2) 1-storied Rc Sub-station and Generator Building: 1 story above grade. 3) Overhead water tank over septic tank: water tank above grade and septic tank under ground. 4) Pump House: above grade.
Approximate Ancillary Structures Area (SF) :	1) 1-storied Rc Security, Medical and Childcare Building: about 400 sft. 2) 1-storied Rc Sub-station and Generator Building: about 300 sft. 3) Overhead water tank over septic tank: 4) Pump House: about 250 sft.
Number of Occupants :	Total = 650.
Exterior Facade Description :	R.C. framework in filled with 10 inch thick masonry wall, Aluminum window and Aluminum Louver.
Structural System Description :	Sloped roof is made of zinc alum sheet structural steel framework, steel columns supported by spread footings. Exterior walls are supported by Rc frame and Rc columns.
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:	Factory activities have been expanded in a new building in another location on plot # 15 KEPZ, under the same FFC ID.
Source of Findings:	
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:	Factory activities have been expanded in a new building in another location on plot # 15 KEPZ, under the same FFC ID.
Source of Findings:	
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:	Factory activities have been expanded in a new building in another location on plot # 15 KEPZ, under the same FFC ID.
Source of Findings:	



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:	Factory activities have been expanded in a new building in another location on plot # 15 KEPZ, under the same FFC ID.
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:	As-built Architectural and Structural drawings are available but not prepared following Alliance standards.
Source of Findings:	Document Review: Seen all documents
Suggested Plan of Action:	Have a qualified structural engineer prepare credible as-built documents based on the requirements of Part 8 Section 8.19 of the Alliance Standard.
Suggested Deadline Date:	15 Feb 2018
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: Seen all documents
Suggested Plan of Action:	Engage a qualified structural engineer 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:	15 Feb 2018
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 of compliance with the seismic and wind requirements of BNBC 2006 has not been found.
Source of Findings:	Document Review: Seen all documents
Suggested Plan of Action:	Have a qualified structural engineer document compliance with the seismic and wind requirements stated in the 2006 BNBC.
Suggested Deadline Date:	15 Feb 2018
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 loading's as detailed in BNBC part6, section 1.5.3 has not been found.
Source of Findings:	Document Review: Seen all documents
Suggested Plan of Action:	Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading.
Suggested Deadline Date:	15 Feb 2018
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"
<b>Structural Safety Programs</b>	
Question:	Are floor loads in compliance with posted plans?



Priority Level:	Medium
Non-Compliance Level:	2
Description:	Floor load plans have been found posted but were not prepared following Alliance Standards.
Source of Findings:	Visual Assessment: Visual inspection
Suggested Plan of Action:	Revise the existing load plans as necessary, and then redistribute floor loads to comply with the revised Floor Loading Plans.
Suggested Deadline Date:	15 Feb 2018
Standard:	Alliance Standard Part 8 Section 8.10 Floor Loading Plans (Load Plans).
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 are available but not prepared following Alliance Standards.
Source of Findings:	Document Review: Seen all documents
Suggested Plan of Action:	Have a qualified structural engineer develop Floor Loading Plans per the requirements of Part 8 Section 8.20.5.3.
Suggested Deadline Date:	15 Feb 2018
Standard:	Alliance Standard Part 8 Section 8.10 Floor Loading Plans (Load Plans)
Question:	Are Floor Load Plans posted as required?
Priority Level:	Low
Non-Compliance Level:	2
Description:	Floor load plans have been found posted but not prepared following Alliance Standards.
Source of Findings:	Document Review: Seen all documents
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 posted on all levels of the building.
Suggested Deadline Date:	15 Feb 2018
Standard:	Alliance Standard Part 8 Section 8.20.5.3

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**ALLIANCE**  
FOR BANGLADESH WORKER SAFETY