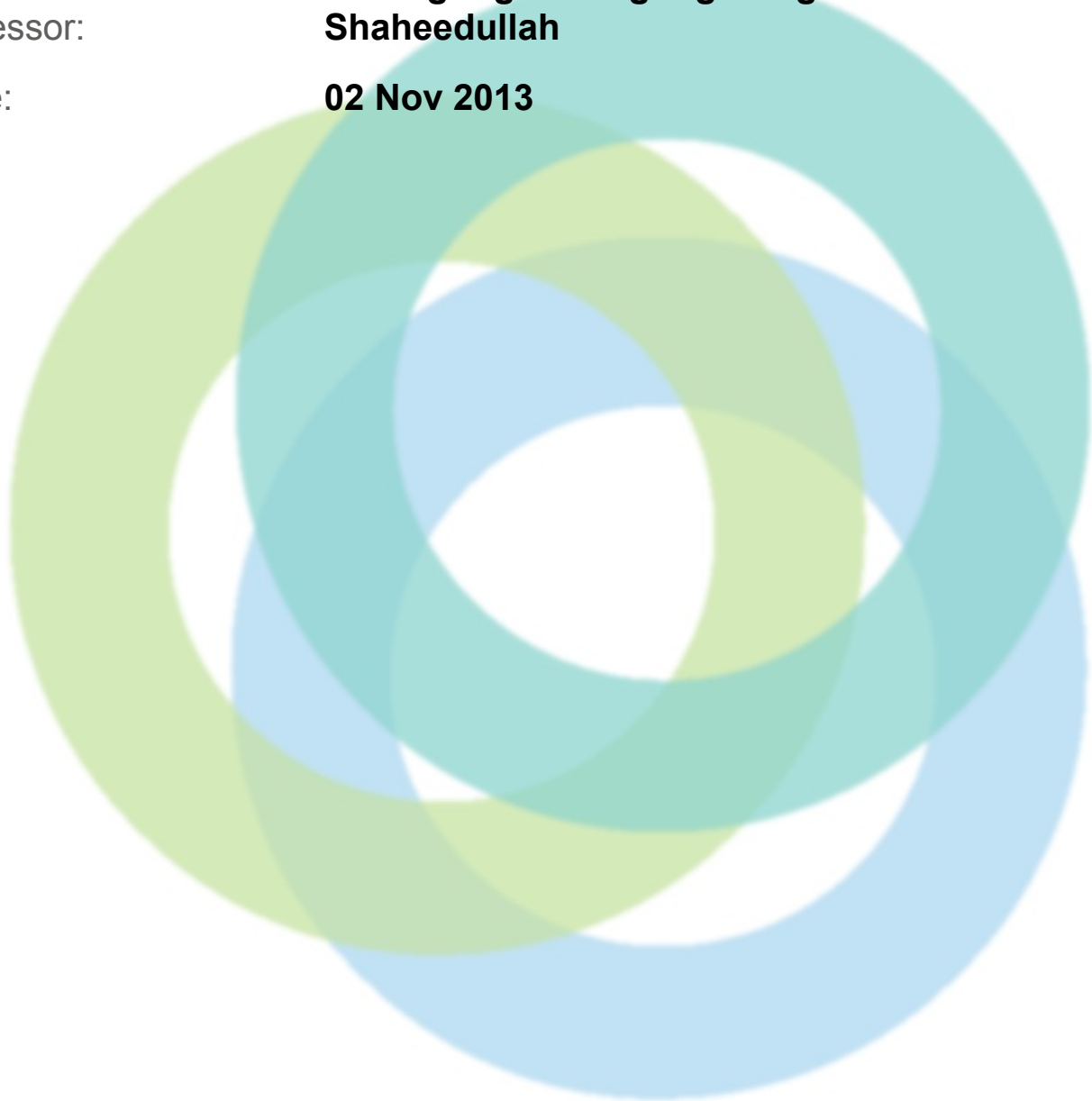


# INITIAL STRUCTURAL INTEGRITY ASSESSMENT REPORT (SIAR)

Factory Name: **Smart Jeans Ltd**  
Address: **9/10, FIDC Road, Kalurghat Heavy I/A, Chittagong  
Chittagong Chittagong Bangladesh**  
Assessor: **Shaheedullah**  
Date: **02 Nov 2013**





## 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:	Smart Jeans Ltd
Address:	9/10, FIDC Road, Kalurghat Heavy I/A, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4208
Audit Duration:	2 Days 16 Hours
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	November 2,2013
Final Report Date :	Dec 23, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex :	Four(1 Main Building, 3 Ancillary Buildings).
Number of Building Levels (Stories) :	Main Building: 5 Storied.
Approximate Building Area (SF) :	Total area of the main building is 93,000 SF approx. (GF-4th: 18,600 SF in each floor).
Date of Building Construction :	The main building was constructed in 2004, the washing building was constructed in 2006, and the dinning building and chemical building were constructed 2011.
Date of Last Building Renovation/Addition :	N/A
Is the Building mixed use?:	No
Ancillary Structures in Complex :	There are three ancillary structure in complex.
Number of Ancillary Levels (Stories) :	Ancillary-1: 3 storied, Ancillary-2: 2 storied, Ancillary-3: shed building.
Approximate Ancillary	Total area of the ancillary structure is 9,750 SF approx. Ancillary-1:( GF-2nd: 2,250 SF in each floor, Ancillary-

Factory Name: **Smart Jeans Ltd**  
Address: **9/10, FIDC Road, Kalurghat Heavy I/A, Chittagong Chittagong Chittagong Bangladesh**

Assessor: **Shaheedullah**

Date: **02 Nov 2013**



**ALLIANCE**  
FOR BANGLADESH WORKER SAFETY

Structures Area (SF) :	2:( GF-1st: 6,500 SF in each floor, Ancillary-3: 3,000 SF.
Number of Occupants :	Total 2,100
Exterior Facade Description :	5 inch thick plastered masonry brick wall with 25% window opening enclosed by R.C beams and columns.
Structural System Description :	Frame work of the building is composed of R.C. slab,beam, R.C. column, mat foundation and spread footings.



## ASSESSMENT FINDINGS

### Structural System Design

Question:	Are credible structural design documents available for review and kept on site?	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Most of credible structural design documents are available for review and kept it on site. As built drawing has not been provided. Architect of record was not found for review.	
Source of Findings:	Photograph: Photos of structural design document have been attached.	
Suggested Plan of Action:	A qualified structural engineer shall be engaged to prepare credible as-built documents based on the requirements of Part 8 Section 8.19 of the Alliance Standard.	
Suggested Deadline Date:	15 Jan 2015	
Standard:	Alliance Standard Part 8 Section 8.19 Required Structural Documentation for New and Existing Factories	
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:	1	
Description:	No documentation is available to show that the building is compliant with the requirements for wind loading and storm surge loadings.	
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 and storm surge loading. This should be reflected in the design report.	
Suggested Deadline Date:	15 Dec 2014	



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:	1
Description:	Certificate of Occupancy was not available for review.
Source of Findings:	Document Review: Seen all documents.
Suggested Plan of Action:	Certificate of Occupancy shall be obtained from appropriate authority
Suggested Deadline Date:	08 Aug 2014
Standard:	Alliance Standard Part 8 Section 8.3 Preliminary Structural Assessment
<b>Structural System Construction</b>	
Question:	Are all non-structural elements suspended from, attached to, or resting atop the structure adequately anchored and braced to resist earthquake forces?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	No anchoring and bracing are used in Steel racks to resist earthquake forces.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Water tanks and steel racks shall be adequately anchored and braced to resist earthquake force as per BNBC and Alliance Standard.
Suggested Deadline Date:	15 Dec 2014
Standard:	Alliance Standards Part 8 Section 8.18 Seismic Bracing of Key Non-Structural Elements and 2006 BNBC Part 6
<b>Structural Safety Programs</b>	
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:	No program in place is found.



Source of Findings:	Document Review: Seen all documents.	
Suggested Plan of Action:	A program shall be developed 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:	15 Dec 2014	
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:	No load Plans been prepared for each floor documenting the actual maximum operational loading that is Intended or allowable on each floor.	
Source of Findings:	Visual Assessment: Visual inspection.	
Suggested Plan of Action:	Have a qualified structural engineer develop Floor Loading Plans as per the requirements of Part 8 Section 8.20.5.3	
Suggested Deadline Date:	15 Dec 2014	
Standard:	Alliance Standard Part 8 Section 8.10 Floor Loading Plans (Load Plans)	
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:	Floor Load Plans have not been developed.	
Source of Findings:	Visual Assessment: Visual inspection.	
Suggested Plan of Action:	Provide signage or the markings at all areas used for storage to indicate the acceptable loading limits detailed in the Load Plan.	
Suggested Deadline Date:	15 Dec 2014	
Standard:	Alliance Standard Part 8 Section 8.11 Floor Load Markings	
Question:	Are Floor Load Plans posted as required?	
Priority Level:	Low	
Non-Compliance Level:	1	

Factory Name: **Smart Jeans Ltd**  
Address: **9/10, FIDC Road, Kalurghat Heavy I/A, Chittagong Chittagong Chittagong Bangladesh**

Assessor: **Shaheedullah**

Date: **02 Nov 2013**



**ALLIANCE**  
FOR BANGLADESH WORKER SAFETY

Description:	Floor load plans not posted according to Alliance Standards Part 8 Structural Design Section 8.10 Floor Loading Plans(Load Plans)	
Source of Findings:	Visual Assessment: Visual inspection.	
Suggested Plan of Action:	Load plans must be prepared by a qualified engineer and posted clearly on each floor and as necessary to distribute floor loads to comply with the floor loading plans as per Alliance Standard Part 8 Section 8.20.5.3	
Suggested Deadline Date:	15 Dec 2014	
Standard:	Alliance Standard Part 8 Section 8.20.5.3	