

INITIAL STRUCTURAL INTEGRITY ASSESSMENT REPORT (SIAR)

Factory Name: **GREEN TEXTILE LIMITED (BANGLADESH)**

Address: **Nijuri Bazar, Baraid 2, Madurai, Bhaluka Mymensingh
Mymensingh Dhaka Bangladesh**

Assessor: **Emkay Enterprises LTD**

Date: **17 Nov 2015**





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:	GREEN TEXTILE LIMITED (BANGLADESH)
Address:	Nijuri Bazar, Baraid 2, Madurai, Bhaluka Mymensingh Mymensingh Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Mymensingh
Zip Code:	
Audit Duration:	1 Days 0 Hours
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	27 November 2015
Final Report Date :	01 December 2015
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex :	There are 03 buildings. A. Main building: 01; B. Ancillary building: 02.
Number of Building Levels (Stories) :	Main Building: G + M + 1 (2 stories with mezzanine floors).
Approximate Building Area (SF) :	Total: 129,412.00 SF, (Main building: G.F: 56,242; Mezzanine: 16,090; 1st: 57,080).
Date of Building Construction :	All buildings: 2014-15
Date of Last Building Renovation/Addition :	No addition or renovation.
Is the Building mixed use?:	No
Ancillary Structures in Complex :	There is 02 ancillary structures.
Number of Ancillary Levels (Stories) :	All the structures were single storey.
Approximate Ancillary	Total: 4,250.00 SF, (ETP: 2,935; Guard room: 1,315).

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Structures Area (SF) :	
Number of Occupants :	Total Occupant: 34. (Main building: G.F: 30, Mezzanine: Vacant, 1st: Vacant (Under construction); ETP: 02, Guard room: 02).
Exterior Facade Description :	The exterior facade is infilled masonry wall with plaster finished and painted and windows are frame type.
Structural System Description :	In total two storied building of which one storey RCC beam-column moment resisting frame with single mezzanine and one steel moment resisting frame at roof.
Issues were not found during the structural integrity assessment that required the Emergency Escalation Protocol (and referral to NTC Review Panel)?:	Yes



ASSESSMENT FINDINGS

Structural System Design

Question:	Is a clear and redundant load path to resist lateral loads provided?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Clear and redundant load path to resist lateral load found for the RCC structures but for steel structure part, load path is not clear. Because there is clear mismatch of bracing alignment span to the construction executed span (According to the design drawing, cable bracing starts from 2nd span but as per site condition, cable bracing started from 1st span). Moreover cable vertical bracing was unavailable in short direction according to the design drawing and also some roof bracing was missing.
Source of Findings:	Photograph: 1. Bracing alignment as per design drawing. 2. Bracing construction as per site in long direction. 3. Bracing construction unavailable for short direction., Visual Assessment: Clear and redundant load path to resist lateral load found for the RCC structures but for steel structure part, load path is not clear. Because there is clear mismatch of bracing alignment span to the executed span. Moreover cable bracing was unavailable in some areas.
Suggested Plan of Action:	Have a qualified structural engineer complete further analysis of the structure and develop a remediation plan if required.
Suggested Deadline Date:	31 Jan 2016
Standard:	Alliance Standards Part 8 Section 8.17 Design for Lateral Loads and 8.3.3. 2006 BNBC Part 6 Section 1.5
Question:	Are credible structural design documents available for review and kept on site?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Structural design drawing, design load consideration was found but design report with compliance related calculation was not found during document review.
Source of Findings:	Document Review: Structural drawing, design load consideration was found but design report with calculation was not found during document review., Photograph: 1. Structural drawing page 1 2. Structural drawing page 2
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:	31 Jan 2016

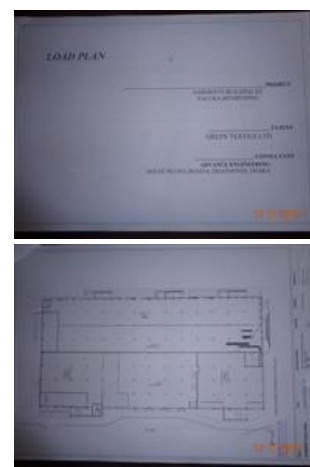




Standard:	Alliance Standard Part 8 Section 8.19 Required Structural Documentation for New and Existing Factories	
Question:	Are Certificates of Occupancy available for review?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	No certificate of occupancy found for review.	
Source of Findings:	Document Review: Documents reviewed onsite.	
Suggested Plan of Action:	Provide Certificates of Occupancy for review.	
Suggested Deadline Date:	31 Jan 2016	
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:	There is no program that will ensure that the designated load in each floor will not be exceeded.	
Source of Findings:	Document Review: There is no program that will ensure that the designated load in each floor will not be exceeded.	
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 Jan 2016	
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:	Load Plan document found during document review but does not follow Alliance standard.
Source of Findings:	Document Review: Load Plan document found during document review but does not follow Alliance standard., Photograph: Load plan document 1 Load plan document 2
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:	31 Jan 2016
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 plan was not posted.
Source of Findings:	Visual Assessment: Floor load plan was not posted.
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 all buildings.
Suggested Deadline Date:	31 Jan 2016
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:	No floor load marking found during assessment.
Source of Findings:	Visual Assessment: No floor load marking found during assessment.
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.



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Suggested Deadline Date:	31 Jan 2016	
Standard:	Alliance Standard Part 8 Section 8.11 Floor Load Markings	