

INITIAL STRUCTURAL INTEGRITY ASSESSMENT REPORT (SIAR)

Factory Name: **Karnaphuli Sportswear Ind. Ltd.**

Address: **Plot # 9-14, Sector # 7 Chittagong Export Processing
Zone Chittagong Chittagong Bangladesh**

Assessor: **Shaheedullah**

Date: **09 Feb 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.





GENERAL INFORMATION

General Information	
Factory Name:	Karnaphuli Sportswear Ind. Ltd.
Address:	Plot # 9-14, Sector # 7 Chittagong Export Processing Zone Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4000
Audit Duration:	2 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	February 09,2014
Final Report Date :	December 08, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex :	Two nos of buildings.
Number of Building Levels (Stories) :	One 5 Storied and One 3 storied.
Approximate Building Area (SF) :	Total floor area 3,06,600 Sft
Date of Building Construction :	1998
Date of Last Building Renovation/Addition :	No renovation or addition has been notices.
Is the Building mixed use?:	No
Ancillary Structures in Complex :	No ancillary structures in the complex.
Number of Ancillary Levels (Stories) :	N/A
Approximate Ancillary	N/A

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ALLIANCE
FOR BANGLADESH WORKER SAFETY

Structures Area (SF) :	
Number of Occupants :	6540 persons.
Exterior Facade Description :	5 inch thick masonnary brick wall with 40% window opening enclosed by R.C. slab and R.C Column.
Structural System Description :	Frame work of both buildings are composed of R.C. beams supported slab, columns, grade beams and isolated footings.



ASSESSMENT FINDINGS

Structural System Design

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:	1
Description:	No code has been mentioned in documentation.
Source of Findings:	Document Review: Seen all documents.
Suggested Plan of Action:	Design code shall be collected from the concerned firm, or 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 Dec 2014
Standard:	Reference Alliance Standards Part 8 Section 8.2 Structural Integrity of Existing Factory Buildings
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 available to explicitly state that building complies with wind load requirements.
Source of Findings:	Document Review: Seen all documents.
Suggested Plan of Action:	Design load case shall be collected from the concerned firm. Or Engage a qualified structural engineer to confirm satisfactory structural performance of the buildings under wind loading.
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:	30 Nov 2014
Standard:	Alliance Standard Part 8 Section 8.3 Preliminary Structural Assessment

Structural Safety Programs

Question:	Are floor loads in compliance with posted plans?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	There are no load plans.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Preparing floor load plan redistribute floor loads shall be redistributed as per Alliance standard.
Suggested Deadline Date:	15 Dec 2014
Standard:	Alliance Standard Part 8 Section 8.10 Floor Loading Plans (Load Plans).
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, Visual Assessment: Visual inspection.
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 that 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:	Floor load plans have not been prepared for each floor.
Source of Findings:	Document Review: Seen all documents., Visual Assessment: Visual inspection.
Suggested Plan of Action:	A qualified structural engineer shall be engaged to 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 Floor Load Plans posted as required?
Priority Level:	Low
Non-Compliance Level:	2
Description:	Floor load Plans have not been posted.
Source of Findings:	Document Review: Seen all documents., Visual Assessment: Visual inspection
Suggested Plan of Action:	A qualified structural engineer shall be engaged to develop floor load plans and shall be posted following section 8.20 of the Alliance Standard.
Suggested Deadline Date:	15 Dec 2014
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:	Areas used for storage of work materials and work products have not been marked indicating the acceptable loading limits.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Areas used for storage of work materials and work products shall be clearly marked indicating acceptable loading limits as per alliance standard Part 8 section 8.11.
Suggested Deadline Date:	15 Dec 2014
Standard:	Alliance Standard Part 8 Section 8.11 Floor Load Markings