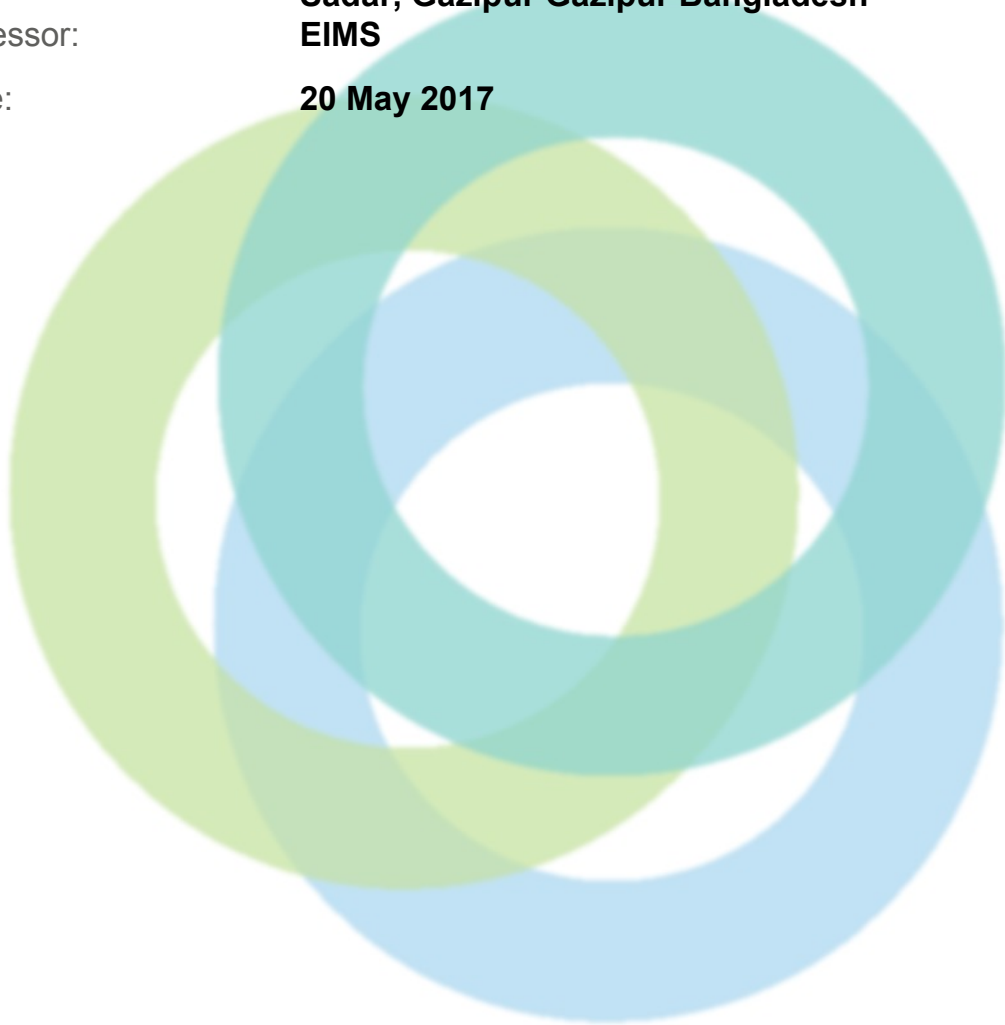


INITIAL STRUCTURAL INTEGRITY ASSESSMENT REPORT (SIAR)

Factory Name: **SP GARMENTS LTD**
Address: **Shirir Chala, Mahona, Babanipur, Vawalgor, Gazipur
Sadar, Gazipur Gazipur Bangladesh**
Assessor: **EIMS**
Date: **20 May 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.



GENERAL INFORMATION

General Information	
Factory Name:	SP GARMENTS LTD
Address:	Shirir Chala, Mahona, Babanipur, Vawalgor, Gazipur Sadar, Gazipur Gazipur Bangladesh
Country:	Bangladesh
Province:	
City:	Gazipur
Zip Code:	
Audit Duration:	1 Days 00 Hours
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	27-05-2017
Final Report Date :	15-06-2017
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex :	There are two main buildings and four ancillary buildings in complex.
Number of Building Levels (Stories) :	Five storied main building.
Approximate Building Area (SF) :	Total 1,76,325 sft (Each floor 35,265 sft)
Date of Building Construction :	2013~2015
Date of Last Building Renovation/Addition :	N/A
Is the Building mixed use?:	No
Ancillary Structures in Complex :	There are four ancillary structures in complex.
Number of Ancillary Levels (Stories) :	All ancillary structures are single storied building.
Approximate Ancillary Structures Area (SF) :	Boiler & Compressor: 3950 sft; Chemical store: 1560 sft; Child care & Medical: 936 sft and Biological unit: 2268 sft. Total: 8,714 sft
Number of Occupants :	Total 600.
Exterior Facade Description :	10 inch brick masonry wall both side non-plastered without reinforcement in facade wall, some window and some glasses in the building.
Structural System Description :	Steel moment resisting frame structure.
Issues were not found during the structural	Yes

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integrity assessment that required the Emergency Escalation Protocol (and referral to NTC Review Panel)?:



ASSESSMENT FINDINGS

Structural System Design

Question:	Are the available FoS for the columns adequate based on Preliminary calculation?	 
Priority Level:	High	
Non-Compliance Level:	2	
Description:	FoS of columns considering design live load (63 psf) is listed below: 1. Central: 1.33 2. Corner: 1.64 3. Edge: 1.41 Since FoS of two columns (central and edge) falls in the range 1.2~1.45, Detailed Engineering Assessment (DEA) has to be carried out within 6 weeks as per Alliance standard.	
Source of Findings:	Uploaded Document: 1. FoS calculation sheet 2. Steel plate test report	
Suggested Plan of Action:	Under guidance from a qualified structural engineer arrange Detail Engineering Assessment of the structure. This assessment should be conducted within 6 weeks.	
Suggested Deadline Date:	31 Jul 2017	
Standard:	Provide results of preliminary calculations in space provided. a) column capacity; FoS > 1.86 - Safe b) column capacity; FoS 1.5 -1.86 - Needs Evaluation c) Column capacity; FoS 1.25-1.5 - Needs Evaluation d) Column capacity; FoS <1.25 - Unsafe In case of a critically low FoS (<1.25), consider Immediate Escalation Protocol	
Question:	Are Certificates of Occupancy available for review?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	No occupancy certificate was found during site visit.	
Source of Findings:	Document Review: Document reviewed during site visit on May 20, 2017	
Suggested Plan of Action:	Provide Certificates of Occupancy for review.	
Suggested Deadline Date:	31 Jul 2017	
Standard:	Alliance Standard Part 8 Section 8.3 Preliminary Structural Assessment	

Structural System Construction

Question:	Are structural steel members free of corrosion, physical damage or other types of deterioration?	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Problems in steel connections were found during site visit. Problems in steel connections are as following: i. Detailing of panel zone at moment connection is not proper. ii. Continuity plate at moment connection of steel beam-column joint is not present.	
Source of Findings:	Visual Assessment: Photograph of steel connection	



Suggested Plan of Action:	Complete further testing on areas of deterioration and have a qualified structural engineer develop a remediation plan.	
Suggested Deadline Date:	31 Jul 2017	
Standard:	Alliance Standard Part 8 Section 8.26	
Structural Safety Programs		
Question:	Are Floor Load Plans posted as required?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Load plan was posted but it was not as per Alliance standard. It was printed in colored paper which was not clearly visible. Clear and visible load plan in white paper must be posted at each floor.	
Source of Findings:	Photograph: Photograph of unclear posted load plan	
Suggested Plan of Action:	Floor load plans should be posted in a more clear and legible format. Floor load plans should be visibly posted on all levels of the building.	
Suggested Deadline Date:	31 Jul 2017	
Standard:	Alliance Standard Part 8 Section 8.20.5.3	