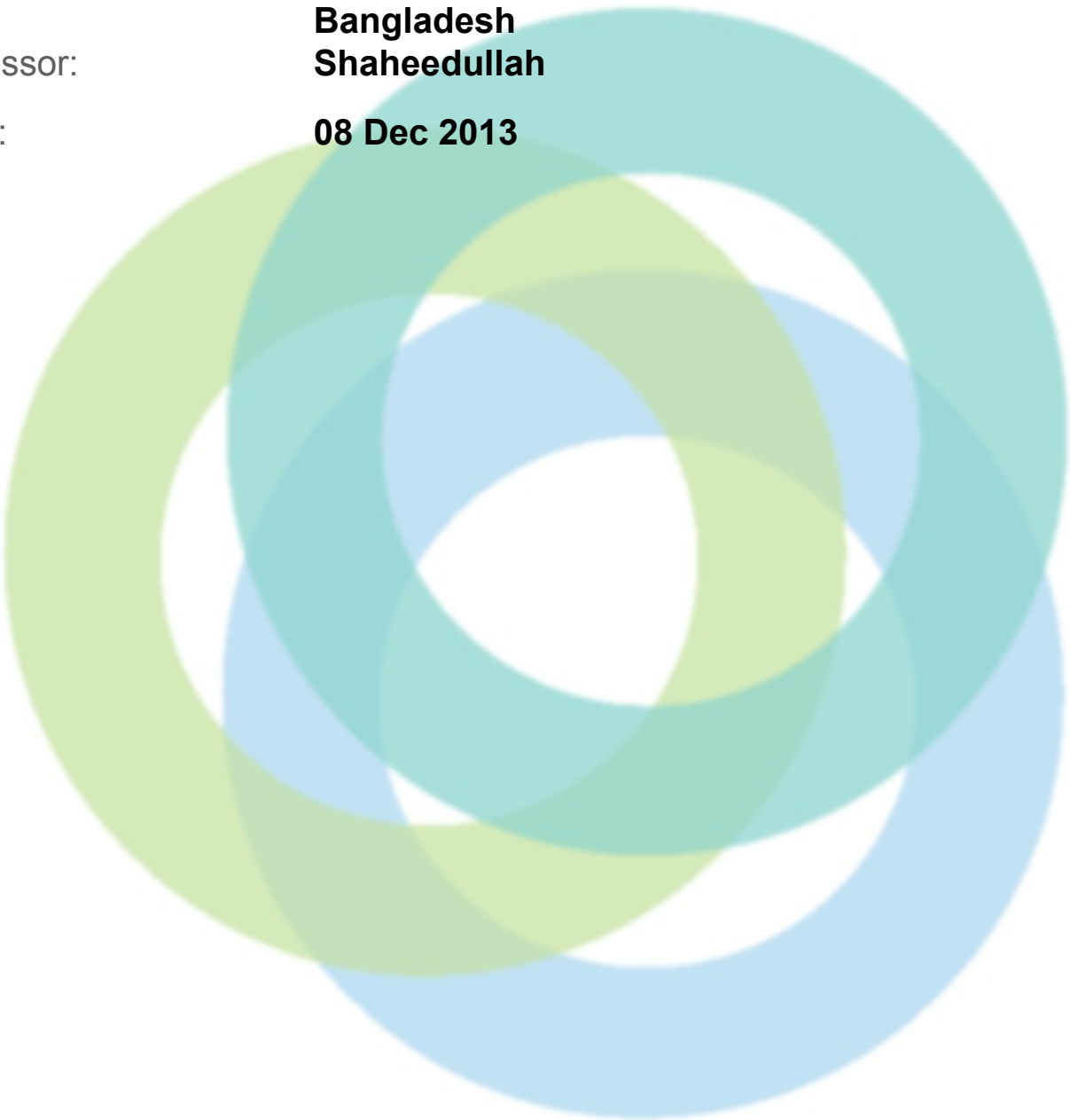


INITIAL STRUCTURAL INTEGRITY ASSESSMENT REPORT (SIAR)

Factory Name: **Needle Art Embroidery Ltd (New Location)**
Address: **Neelnagar, Konabari, Gazipur Gazipur Dhaka
Bangladesh**
Assessor: **Shaheedullah**
Date: **08 Dec 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.



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ALLIANCE
FOR BANGLADESH WORKER SAFETY

GENERAL INFORMATION

General Information	
Factory Name:	Needle Art Embroidery Ltd (New Location)
Address:	Neelnagar, Konabari, Gazipur Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Gazipur
Zip Code:	1346
Audit Duration:	2 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	December 8, 2013
Final Report Date :	December 16, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex :	Total 5 buildings
Number of Building Levels (Stories) :	1
Approximate Building Area (SF) :	7200 sq ft
Date of Building Construction :	Constructed three years ago (2011)
Date of Last Building Renovation/Addition :	None
Is the Building mixed use?:	No
Ancillary Structures in Complex :	No ancillary structure taken under assessment.
Number of Ancillary Levels (Stories) :	N/A
Approximate Ancillary	N/A

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FOR BANGLADESH WORKER SAFETY

Structures Area (SF) :	
Number of Occupants :	95 people
Exterior Facade Description :	Paint on steel and 5" thick plastered masonry wall supported by R.C columns and grade beams with door and window opening. Above lintel : Covered by zinc alum sheet.
Structural System Description :	RC isolated RC footing, RC grade beams and columns,sloped metallic shed as roof



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 the structural design documents were available for review and kept on site but as built drawings were not found. Structural engineer and architect not mentioned.	
Source of Findings:	Document Review: Seen all documents., Uploaded Document: Document uploaded.	
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 2015	
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:	No credible drawing design data found in favor of conformance with 2006 BNBC or other comparable applicable international model building code.	
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 2015	
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:	No documented compliance with the seismic and wind requirements of the 2006 BNBC was 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 2015	
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:	No documentation available to obviously describe that building complies with wind load requirements.	
Source of Findings:	Document Review: Onsite documentation	
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 2015	
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:	No occupancy certificate available.	
Source of Findings:	Document Review: Seen all documents.	
Suggested Plan of Action:	Provide approved certificates of occupancy from local authority	
Suggested Deadline Date:	15 Feb 2015	
Standard:	Alliance Standard Part 8 Section 8.3 Preliminary Structural Assessment	
Structural Safety Programs		
Question:	Are Floor Load Plans posted as required?	
Priority Level:	Low	
Non-Compliance Level:	2	



Description:	Floor load plans are not available.
Source of Findings:	Document Review: Load plan not found.
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: 08 Aug 2014 Standard: Alliance. Floor load plans should be visibly posted on all levels of all buildings.
Suggested Deadline Date:	15 Feb 2015
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:	Assessment team did not observe any load plans posted as per Reference Alliance Standards Part 8 Structural Design Section 8.11 Floor Load Markings
Source of Findings:	Visual Assessment: Physical inspection
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
Suggested Deadline Date:	15 Feb 2015
Standard:	Alliance Standard Part 8 Section 8.11 Floor Load Markings
Question:	Is a designated representative (Factory Load Manager), who is onsite full time, trained regarding the structural floor capacity, and serves as an ongoing vendor resource and monitor of operational factory floor loadings?
Priority Level:	Low
Non-Compliance Level:	2
Description:	No designated representative (Factory Load Manager) was found
Source of Findings:	Document Review: Seen all documents.
Suggested Plan of Action:	Designate a representative as the Factory Load Manager. The Factory Owner shall ensure that at least one individual, the Factory Load Manager who is located onsite full time at the factory, is trained in calculating operational load characteristics of the specific factory. The Factory Load Manager shall serve as an ongoing resource to RMG vendors and be responsible to ensure that the factory operational loads do not at any time exceed the factory floor loading limits as described on the Floor Loading Plans.
Suggested Deadline Date:	15 Jan 2015

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Standard:	Alliance Standards Part 8 Section 8.9 Factory Load Manager	
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:	1	
Description:	Load Plan is not available	
Source of Findings:	Document Review: Onsite documentation	
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 2015	
Standard:	Alliance Standard Part 8 Section 8.10 Floor Loading Plans (Load Plans)	