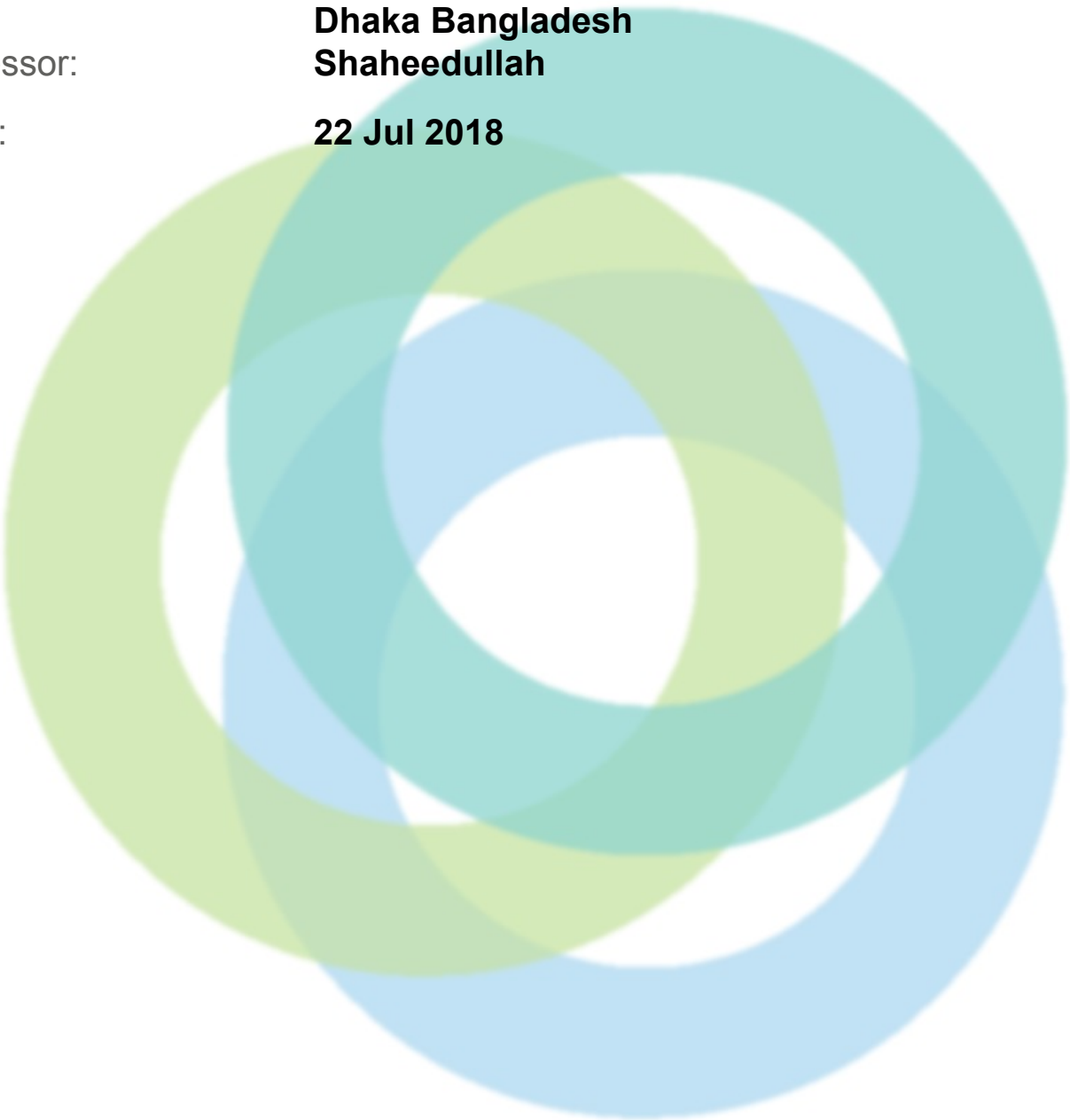


INITIAL STRUCTURAL INTEGRITY ASSESSMENT REPORT (SIAR)

Factory Name: **Azmat Apparels Ltd. (New Location)**
Address: **62, Kathgara, Zirabo Ashulia, Savar Ashulia, Savar
Dhaka Bangladesh**
Assessor: **Shaheedullah**
Date: **22 Jul 2018**





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:	Azmat Apparels Ltd. (New Location)
Address:	62, Kathgara, Zirabo Ashulia, Savar Ashulia, Savar Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Ashulia, Savar
Zip Code:	1341
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	29 July 2018
Final Report Date :	28 August 2018
Buildings in Complex :	There are 3 buildings/sheds in the factory complex. Out of 3 buildings/sheds, 1 is production building and 2 are ancillary buildings/sheds. Production building is named as: 1)8-storied RC production building including basement(B+7). Ancillary buildings/sheds are named as: 1)1-storied Cycle parking shed. 2)1-storied outdoor shower and changing block. Floor wise activities of 8-storied RC production building: Basement floor: Pump room, UGWR for fire area, Stuff dining, Canteen shop, Dining Area, Prayer Room(Male &Female) Gr. Floor: HR & Admin Room, Control Panel, Medical Room(Male & Female) 1st floor: Cutting Area, Fabric Relaxing Area, Marker Pattern Store, CAD Room, Fusing Area, Office Area. 2nd floor: Office Room, Board Room, Reception Room, Sample Room, Ample Store& Display Area, Finished Goods Area. 3rd floor: Sewing Area, Finishing& Packing Area, Ex-Machine Store, Sub -Store, Dumping , Office Room, Buyer Inspection Room 4th floor: Sewing Area, Finishing& Packing Area, Ex-Machine Store, Sub-Store, Dumping , Office Room, Buyer Inspection Room 5th floor: Sewing Area, Finishing& Packing Area, Ex-Machine Store, Sub-Store, Dumping ,Office Room, Buyer Inspection Room. 6th floor: Sewing Area, Finishing& Packing Area, Ex-Machine Store, Sub-Store, Dumping ,Office Room, Buyer Inspection Room.
Number of Building Levels (Stories) :	8-storied RC production building including basement (B+7): 7- stories above grade.
Approximate Building Area (SF) :	Area is about 281,119 sft. Basement floor: 30,086 sft Gr. Floor:29,117 sft 1st floor: 37,966 sft 2nd floor:36,720 sft 3rd floor: 36,320 sft 4th floor: 37,214 sft 5th floor:36,878 sft 6th floor:36,818 sft
Date of Building Construction :	8-storied RC production building including basement(B+7): 2015-2017.
Date of Last Building Renovation/Addition :	No sign of renovation or addition has been noticed.
Is the Building mixed use?:	Yes

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Ancillary Structures in Complex :	1)1-storied Cycle parking shed. 2)1-storied outdoor shower and changing block.
Number of Ancillary Levels (Stories) :	1)1-storied Cycle parking shed:1storey above grade. 2)1-storied outdoor shower and changing block: 1storey above grade.
Approximate Ancillary Structures Area (SF) :	1)1-storied Cycle parking shed: About =3105 sft. 2)1-storied outdoor shower and changing block: About=502 sft.
Number of Occupants :	Total = 2860 Persons.
Exterior Facade Description :	8-storied RC production building including basement(B+7): R.C. framework in filled with 5/10 inch thick masonry wall, aluminum windows and curtain glass wall.
Structural System Description :	8-storied RC production building including basement(B+7): Frame work of the building is composed of RC slab, Beams and columns supported by single and combined footings.
Issues were not found during the structural integrity assessment that required the Emergency Escalation Protocol (and referral to NTC Review Panel)?:	Yes

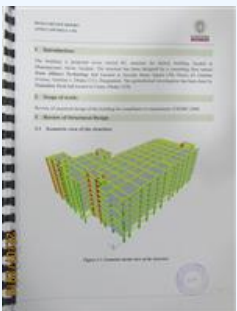
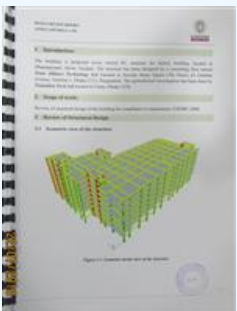
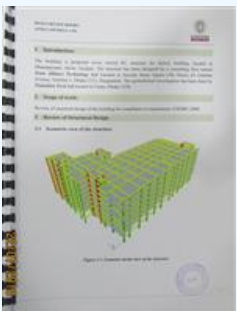


ASSESSMENT FINDINGS

Structural System Design

Question:	Are credible structural design documents available for review and kept on site?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Non approved architectural, structural drawings for all buildings and design report for 8-storied RC production building are available and kept on site	
Source of Findings:	Document Review: Document review.	
Suggested Plan of Action:	Design report in association with as built drawings for 8-storied RC production building shall be sent to Alliance for approval.	
Suggested Deadline Date:	30 Sep 2018	
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:	3	
Description:	Non approved design report indicating general conformance with 2006 BNBC for 8-storied RC production building is available and kept on site.	



Source of Findings:	Document Review: Document review.	
Suggested Plan of Action:	Design report for 8-storied RC production building shall be sent to Alliance for approval.	
Suggested Deadline Date:	30 Sep 2018	
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:	3	
Description:	Non approved design report compliant with the seismic and wind requirements of the 2006 BNBC for 8-storied RC production building is available and kept on site.	
Source of Findings:	Document Review: Document review.	
Suggested Plan of Action:	Design report for 8-storied RC production building shall be sent to Alliance for approval.	
Suggested Deadline Date:	30 Sep 2018	
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:	3	
Description:	Non approved design report compliant with the requirements for wind loading and storm surge loadings as detailed in BNBC Part 6 Section 1.5.3 for 8-storied RC production building is available and kept on site.	
Source of Findings:	Document Review: Document review.	
Suggested Plan of Action:	Design report for 8-storied RC production building shall be sent to Alliance for approval.	
Suggested Deadline Date:	30 Sep 2018	
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:	Have provisions been made in floors or decks for a concentrated load (such as heavy equipment, water tanks, stored materials, etc) applied at a location wherever this load acting upon an otherwise unloaded floor would produce stresses greater than those caused by a uniform load?	 
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Two plastic water tanks of 2000 liters capacity each have been noticed over the roof of pent house.	
Source of Findings:	Photograph: Two plastic water tank in roof, Visual Assessment: Visual inspection.	
Suggested Plan of Action:	A qualified structural engineer shall be engaged to confirm and document that provisions have been made to accommodate concentrated loads. If provisions have not been made, have a qualified structural engineer to develop a remediation plan.	
Suggested Deadline Date:	30 Sep 2018	
Standard:	Alliance Standard Part 8 Section 8.13 and 8.14	
Question:	Where density of operations, storage of materials, or equipment weights require live load capacity in excess of 2.0 kN/m2 (42 psf), do the design documents confirm that the required load capacity exists? Or has the load capacity been analytically confirmed and certified by an Alliance-qualified structural engineer?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Overloading in excess of 42 psf has been noticed in certain storage areas at ground floor over basement.	
Source of Findings:	Photograph: excess load, Visual Assessment: Visual inspection.	
Suggested Plan of Action:	Loading shall be kept within the limit of 42 psf.	
Suggested Deadline Date:	30 Sep 2018	
Standard:	Alliance Standards Part 8 Section 8.15 Minimum Floor Design Loads	
Question:	Are Certificates of Occupancy available for review?	
Priority Level:	Low	
Non-Compliance Level:	2	



Description:	Certificate of Occupancy is not available.
Source of Findings:	Document Review: No Document found
Suggested Plan of Action:	Certificate of occupancy shall be obtained from appropriate authority.
Suggested Deadline Date:	30 Sep 2018
Standard:	Alliance Standard Part 8 Section 8.3 Preliminary Structural Assessment

Structural System Construction

Question:	Have all areas of needed maintenance, including areas with efflorescence, dampness, standing water on rooftops, and corrosion been addressed.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Standing water at certain locations has been noticed on roof of 8 storied RC production building.
Source of Findings:	Photograph: Standing water on roof, Visual Assessment: Visual inspection.
Suggested Plan of Action:	Under guidance from a qualified structural Engineer address all areas of needed maintenance by correcting the identified issue.
Suggested Deadline Date:	30 Sep 2018
Standard:	Alliance Standard Part 8 Section 8.26 Durability and Maintenance
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:	Steel racks have been noticed without seismic anchorage in ground and 1st floor of the 8 storied building.
Source of Findings:	Visual Assessment: Visual inspection.
Suggested Plan of Action:	Storage racks shall be adequately anchored and braced against earthquake forces.
Suggested Deadline Date:	30 Sep 2018
Standard:	Alliance Standards Part 8 Section 8.18 Seismic Bracing of Key Non-Structural Elements and 2006 BNBC Part 6



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:	Floor load program for occupied floors ensuring the allowable live loads has not been found.	
Source of Findings:	Document Review: Document review.	
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:	30 Sep 2018	
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:	3	
Description:	Floor load plan has not been prepared.	
Source of Findings:	Document Review: No load plan found	
Suggested Plan of Action:	A qualified structural Engineer shall be engaged to prepare floor load plan following Alliance standard and posted accordingly.	
Suggested Deadline Date:	30 Sep 2018	
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 has not been prepared and posted	
Source of Findings:	Visual Assessment: Visual inspection.	
Suggested Plan of Action:	A qualified structural engineer shall be engaged to develop floor load plan following Alliance Standard and posted accordingly.	
Suggested Deadline Date:	30 Sep 2018	

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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:	Load marking has not been found.	
Source of Findings:	Visual Assessment: Visual inspection.	
Suggested Plan of Action:	A qualified structural engineer shall be engaged to develop floor load plans. Load marking shall be confirmed after revising load plan.	
Suggested Deadline Date:	30 Sep 2018	
Standard:	Alliance Standard Part 8 Section 8.11 Floor Load Markings	