

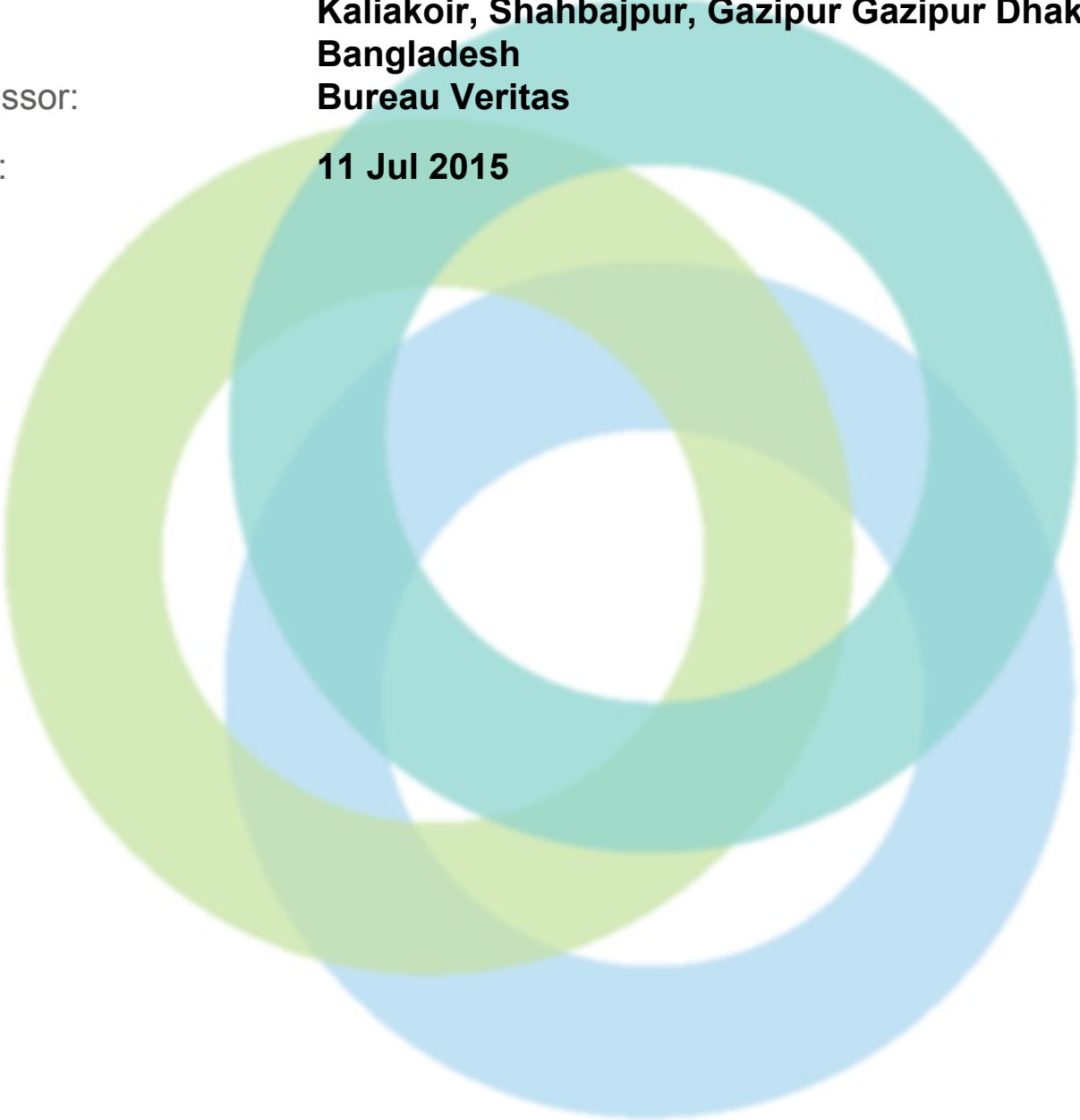
INITIAL ELECTRICAL ASSESSMENT REPORT (EAR)

Factory Name: **Dressmen Apparels Limited**

Address: **Pallirani, Connecting Road (Bhataria), Savar,
Kaliakoir, Shahbajpur, Gazipur Gazipur Dhaka
Bangladesh**

Assessor: **Bureau Veritas**

Date: **11 Jul 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:	Dressmen Apparels Limited
Address:	Pallirani, Connecting Road (Bhataria), Savar, Kaliakoir, Shahbajpur, Gazipur Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Gazipur
Zip Code:	1750
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	12-07-2015
Final Report Date :	18-07-2015
Are all action items from previous assessment complete? :	N/A
Buildings in Complex :	There are ten buildings in the factory premises out of which three are main production buildings and seven are ancillary buildings. In this phase, assessment done only for one main building and three ancillary building. The assessed buildings are: 1) Three Story New Steel Building, 2) Single Story Generator & Sub-station Shed, 3) Single Story Boiler & Compressor Building, 4) Single Story Wastage Shed.
Is the building(s) owned or rented by the Factory?:	Owned
Number of Building Levels (Stories) :	1) Three Story New Steel Building: Building height (Highest occupied floor level): 29 ft or 8.84 m [Height up to roof: 41 ft or 12.5 m]; Stories above grade: 3, Stories below grade: 0, Occupied levels: 3]; 2) Single Story Generator & Sub-station Shed: Building height (Highest occupied floor level): 1.5 ft or 0.46 m [Height up to roof: 11.5 ft or 3.51 m]; Stories above grade: 1, Stories below grade: 0, Occupied levels: 1]; 3) Single Story Boiler & Compressor Building: Building height (Highest occupied floor level): 1.5 ft or 0.46 m [Height up to roof: 11.5 ft or 3.51 m]; Stories above grade: 1, Stories below grade: 0, Occupied levels: 1]; 4) Single Story Wastage Shed: Building height (Highest occupied floor level): At grade [Height up to roof: 11.5 ft or 3.51 m]; Stories above grade: 1, Stories below grade: 0, Occupied levels: 1].
Approximate Building Area (SF) :	Total area of the building: 43,114 sft. Building wise breakdown as follows: 1) Three Story New Steel Building: 40,000 sft [Ground floor: 12,000 sft, 1st floor: 14,000 sft, 2nd Floor: 14,000 sft]. 2) Single Story Generator & Sub-station Shed: 1,600 sft. 3) Single Story Boiler & Compressor Building: 1,051 sft. 4) Single Story Wastage Shed: 463 sft.
Date of Building Construction :	Factory personnel informed the date of construction as follows: Construction completed in Mar 2015 (All four buildings).



Date of Last Building Renovation/Addition :	No record found from the factory personnel regarding date of last renovation/addition of the factory building.
Ancillary Structures in Complex :	1) Single Story Generator & Sub-station Shed, 2) Single Story Boiler & Compressor Building, 3) Single Story Wastage Shed.
Approximate Ancillary Structures Area (SF) :	1) Single Story Generator & Sub-station Shed: 1,600 sft. 2) Single Story Boiler & Compressor Building: 1,051 sft. 3) Single Story Wastage Shed: 463 sft.
Number of Occupants :	Total number of occupants: 303. Building wise breakdown as follows: 1) Three Story New Steel Building: 300 [Ground floor: 6, 1st floor: 124, 2nd Floor: 170]. 2) Single Story Generator & Sub-station Shed: 01. 3) Single Story Boiler & Compressor Building: 01. 4) Single Story Wastage Shed: 01.
Provide brief description of the electrical system for each building.:	Dressmen Apparels Ltd. has two (2) main incoming connections. One is supplied from the local utility company Rural Electrification Board (REB) 11 KV line and the other is from own Generator by the factory. Main source: Three Phase Transformer (315 KVA) - 1, AVR-1(400KVA), Diesel Generator- 1 (350 KVA)-1, Diesel Generator-2 (375 KVA) - 1, COS-2, LT Panel-1, PFI (190 KVA) - 1, DB- 8. Three Phase electric lines are connected to three phase transformer (315 KVA) to substation room AVR (400KVA) through 3 X 95 mm XLPE cable.
Physical location of Substation? :	Ground floor
What equipment/loads does the UPS serve? :	IPS serves PABX, CCTV, Smoke Detector, emergency lighting and exit signage, etc.



ASSESSMENT FINDINGS

Expansion Details

Question:	Are as-built drawings available for new electrical safety features of the building?
Priority Level:	High
Non-Compliance Level:	3
Description:	Proper Working or “as built” electrical diagram of new electrical safety features of the building are not available at site.
Source of Findings:	Worker Interviews: No as-built drawings of new electrical safety features of the building.
Suggested Plan of Action:	Have a qualified Electrical Engineer develop an as-built new electrical safety features of the building detailing key components and capacity of the electrical system.
Suggested Deadline Date:	06 Sep 2015
Standard:	Alliance Standard reference 8.20

Electrical System Information

Question:	Are as-built electrical drawings indicating information such as panel and circuit locations throughout the building(s) available for review?
Priority Level:	High
Non-Compliance Level:	3
Description:	Proper Working or “as built” electrical diagram of main distribution circuit and floor levels circuits connecting electrical loads (machines/lights/cooling system etc.) are not available at site.
Source of Findings:	Worker Interviews: No as-built electrical drawing was found.
Suggested Plan of Action:	Have a qualified Electrical Engineer develop an as-built single line diagram detailing key components and capacity of the electrical system.
Suggested Deadline Date:	06 Sep 2015
Standard:	Alliance Standard Part 10 Section 10.3.7

Electrical System Maintenance

Question:	Are thermographic scans of electrical equipment completed at least every three years?
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Priority Level:	Medium
Non-Compliance Level:	3
Description:	Thermographic scans of electrical equipment are not done. Location: All DB board and control panel.
Source of Findings:	Document Review: No thermographic scans for electrical equipment.
Suggested Plan of Action:	Complete thermographic scans at least on a three year cycle. Thermographic scans should be completed in accordance with the Standard for Infrared Inspection of Electrical Systems & Rotating Equipment and NFPA70B or a comparable standard.
Suggested Deadline Date:	06 Sep 2015
Standard:	Alliance Standards Part 10 Section 10.13.8 Electrical Inspections

Electrical System Conditions

Question:	Are overhead service connections achieved with covered conductors?
Priority Level:	High
Non-Compliance Level:	3
Description:	Overhead service connections are not achieved with covered conductors. Location: Entrance of Main Gate (Left side).
Source of Findings:	Photograph: No covered conductors for overhead service connections.
Suggested Plan of Action:	Ensure overhead service conductors are covered by replacing the existing conductors or by covering the existing conductors with an approved material. Consult a qualified electrical engineer before completing work.
Suggested Deadline Date:	06 Sep 2015
Standard:	Alliance Standards Part 10 Section 10.3.10 Service Entry
Question:	Are all switchboards and/or distribution boards metal enclosed with a dead front construction?
Priority Level:	High
Non-Compliance Level:	3
Description:	Switchboards and/or distribution boards are metal enclosed but not dead front construction. Location: All DB board.
Source of Findings:	Photograph: Metal enclosure but not dead front.
Suggested Plan of Action:	Ensure switchboards and/or distribution boards with a dead front construction.





Suggested Deadline Date:	02 Aug 2015	
Standard:	Alliance Standards Part 10 Section 10.7 Main Switch, Switchboards and Metal Clad Switchgear	
Question:	Is electrical wiring/cables sized according to capacity of circuit breakers (No higher rated circuit breakers with lower rated wiring)?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Electrical wiring/cables are not sized according to capacity of circuit breakers. Location: All DB boards.	
Source of Findings:	Photograph: Higher rated circuit breakers with lower rated wiring.	
Suggested Plan of Action:	Consult with a qualified Electrical Engineer and ensure electrical wiring/cables are sized according to capacity of circuit breakers.	
Suggested Deadline Date:	20 Sep 2015	
Standard:	Alliance Standard Part 10 Section 10.3.1 Electrical Connections.	
Question:	Indications of overheating, overloading, or signs of burning were not observed.	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	Indications of overheating, overloading, or signs of burning were observed. Location: N.DB-5, Compressor Room.	
Source of Findings:	Photograph: Indications of overheating.	
Suggested Plan of Action:	Find out the cause of overheating, overloading, or signs of burning and take proper action.	
Suggested Deadline Date:	25 Jul 2015	
Standard:	Alliance Standard Part 10 Section 10.3.5	
Question:	Power and telecommunication or antenna cables are led in separately.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Power and telecommunication or antenna cables are not led in separately. Location: 2nd Floor Stair, Main New Building.	
Source of Findings:	Photograph: Power and telecommunication cables are not separated.	



Suggested Plan of Action:	Led telecommunication cables separately from power cable to the main point of service. Power and telecommunications cables must have separate entrance.	
Suggested Deadline Date:	06 Sep 2015	
Standard:	Alliance Standards Part 10 Section 10.3.10 Service Entry	
Question:	Are lighting and receptacle (socket) circuits segregated?	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Lighting and socket are not separated. Location : 2nd floor, in front of spot removing section	
Source of Findings:	Photograph: Lighting and socket are not separated.	
Suggested Plan of Action:	Lighting and socket circuits must be separated at the noted locations. Have a qualified electrician separate the lighting and sockets into separate circuits.	
Suggested Deadline Date:	19 Aug 2015	
Standard:	Alliance Standard Part 10 Section 10.3.7.2	

Lightning Protection System

Question:	Is a lightning protection system installed on the building?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	No lightning protection system installed on the building. Location: New Main Building and Substation.	
Source of Findings:	Photograph: No lightning protection system.	
Suggested Plan of Action:	Install lightning protection system on the building	
Suggested Deadline Date:	10 Jul 2016	
Standard:	Alliance Standards Part 10 Section 10.11 Lightning Protection. Calculate Risk Index to determine if required.	