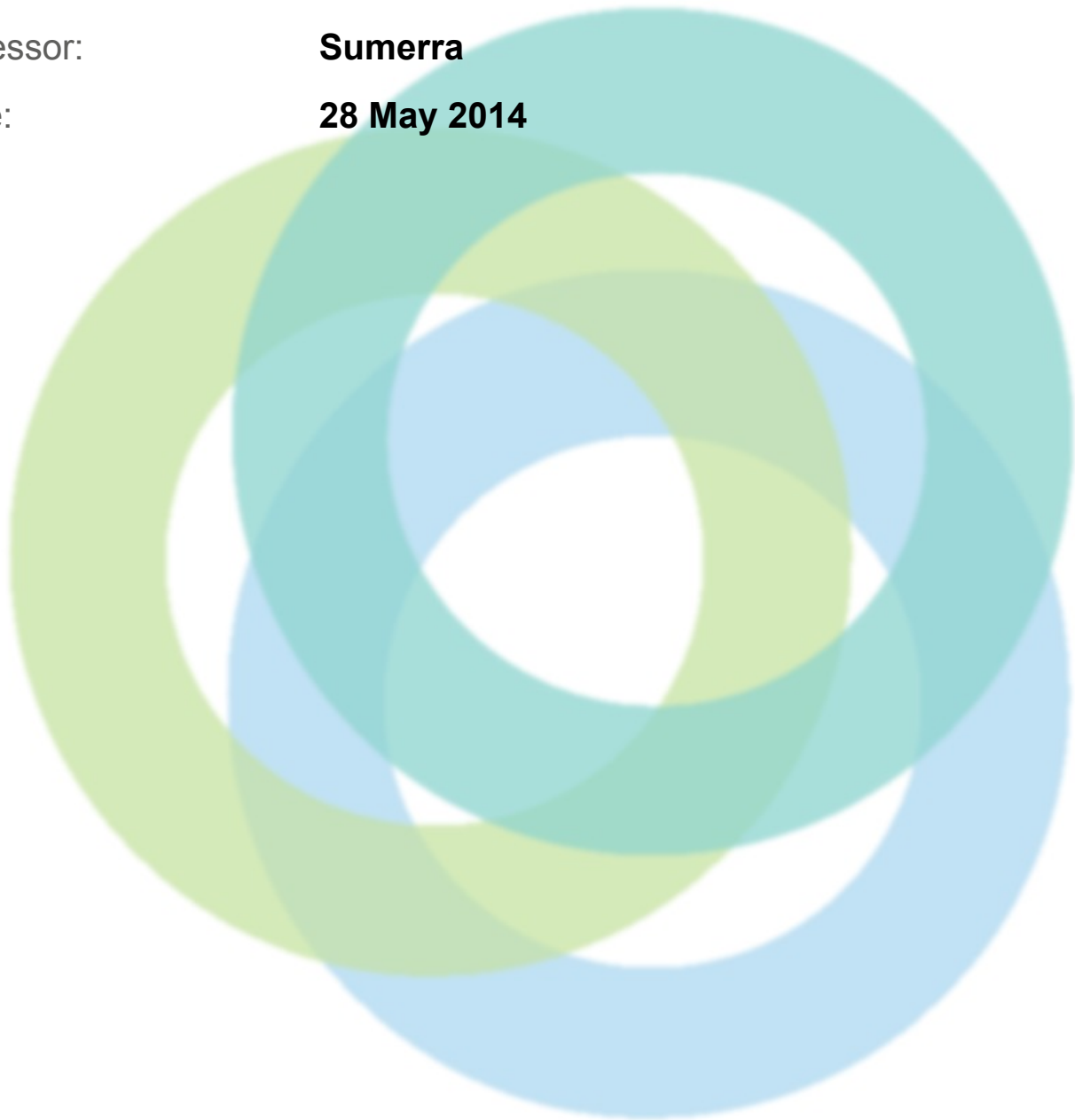


# INITIAL ELECTRICAL ASSESSMENT REPORT (EAR)

Factory Name: **SOUTH EAST TEXTILES (PVT.) LTD.**  
Address: **Gorai, Mirzapur, Gazipur Mirzapur Dhaka Bangladesh**  
Assessor: **Sumerra**  
Date: **28 May 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](http://www.bangladeshworkersafety.org).



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## GENERAL INFORMATION

General Information	
Factory Name:	SOUTH EAST TEXTILES (PVT.) LTD.
Address:	Gorai, Mirzapur, Gazipur Mirzapur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Mirzapur
Zip Code:	
Audit Duration:	3 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	7-Jul-14
Final Report Date :	9-Jul-14
Are all action items from previous assessment complete? :	N/A
Buildings in Complex :	4 Production/Sewing buildings
Is the building(s) owned or rented by the Factory? :	Owned
Number of Building Levels (Stories) :	Building 1: 7 Bulding 2: 3 Building 3: 2 Building 6: 3
Approximate Building Area (SF) :	Building 1: 105000 Building 2: 49800 Building 3: 29200 Building 6: 45000
Date of Building Construction :	Bldg#1:2010 , Bldg#2: 2005 , Bldg#3:2002 , Bldg#6: 2013
Date of Last Building Renovation/Addition :	No additions
Ancillary Structures in Complex :	Building 4: 3 story - WTP, Corporate Dining, Corporate Dorm Building 5: ETP Shed 1: 1 story (Fabric) Shed 2: Utilities Shed 3: Wastage Godown Shed 4: Wash
Approximate Ancillary Structures Area (SF) :	Total ancillary building area 60,930 sft
Number of Occupants :	3200 persons

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Provide brief description of the electrical system for each building.:	Main buildings: There are 4 main buildings. Building one is the production building and has sewing, finishing, embroidery and other production related machines and one elevator. Building 6 has printing machines. These two buildings along with buildings 2
Physical location of Substation? :	The substation is in shade 2.
What equipment/loads does the UPS serve? :	IPS supplies power to emergency lighting, fire alarm, fire exit signage's and PA system.

## ASSESSMENT FINDINGS

### Electrical System Maintenance

Question:	Are thermographic scans of electrical equipment completed at least every three years?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Thermographic scans of electrical equipment were never done.
Source of Findings:	Worker Interviews: Management confirms no thermographic scanning is conducted.
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:	03 Sep 2014
Standard:	Alliance Standards Part 10 Section 10.13.8 Electrical Inspections

### Electrical System Conditions

Question:	Do switchboards and/or distribution boards have clear identification markings?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	No identification on the MDB in building 4, LT panels in substation and on few other panels.
Source of Findings:	Photograph: No identification on MDB and LT panel in substation.
Suggested Plan of Action:	All distribution boards shall be marked "Lighting" or "Power", as the case may be, provided a unique ID number (e.g. MDB-1) and also be marked with the voltage and number of phases of the supply. Each shall be provided with a circuit list giving diagram of each circuit which it controls and the current rating for the circuit and size of fuse element (panel schedule).
Suggested Deadline Date:	06 Aug 2014
Standard:	Alliance Standard Part 10 Section 10.7 BNBC Part 8 Section 2.11.5.4
Question:	Do switchboards and/or distribution boards have capacity information labels?
Priority Level:	Medium
Non-Compliance Level:	3





Description:	Capacity information was not found on boards
Source of Findings:	Visual Assessment: No capacity marking observed on boards
Suggested Plan of Action:	Label all switchboards and/or distribution boards in the factory with capacity information. The permanent label should identify the maximum voltage present in an item of equipment or within the enclosure.
Suggested Deadline Date:	20 Aug 2014
Standard:	Alliance Standard Part 10 Section 10.7 Main Switch, Switchboards And Metal Clad Switchgear and 10.13.7 Inspection of the Installation
Question:	Required equipment and safety signage is posted within the room.
Priority Level:	Low
Non-Compliance Level:	3
Description:	Electric danger/caution signage were not found on few panel boards in substation
Source of Findings:	Visual Assessment: No "electric danger/caution" signage is posted in the Substation room.
Suggested Plan of Action:	Switchgear, unit substations, transformers, pull boxes, connection boxes, and other similar associated equipment shall be marked with appropriate caution signs. Entrances to rooms and other guarded locations that contain exposed live parts shall be marked with conspicuous warning signs forbidding unqualified persons to enter. Caution, warning, danger signs or labels should meet the following requirements: (1) The marking shall adequately warn of the hazard using effective words and/or colors and/or symbols. American National Standards Institute ANSI Z535.4-2011, Product Safety Signs and Labels, provides guidelines for suitable font sizes, words, colors, symbols, and location requirements for labels. (2) Shall be permanently affixed to the equipment or wiring method and shall not be hand written. Exception, portions of labels or markings that are variable, or that could be subject to changes, shall be permitted to be hand written and shall be legible. (3) The label shall be of sufficient durability to withstand the environment involved. ANSI Z535.4-2011, Product Safety Signs and Labels, provides guidelines for the design and durability of safety signs and labels for application to electrical equipment
Suggested Deadline Date:	06 Aug 2014
Standard:	Alliance Standard Part 10 Section 10.3.7, Section 10.7.3, and 10.13.7, NFPA 70 Chapter 1 Article 110.21, and Bangladesh Electricity Rules of 1937 Rule 46
Question:	Phase separators are provided between terminals on circuit breakers.
Priority Level:	Low
Non-Compliance Level:	3
Description:	No phase separators were observed.



Source of Findings:	Visual Assessment: Phase separators are not found between terminal.
Suggested Plan of Action:	Install phase separators between all terminal connections between different phases for voltage exceeding 230 volts . Verify phase separators are installed at all remaining locations.
Suggested Deadline Date:	03 Sep 2014
Standard:	Alliance Standard Part 10 Section 10.3.1 Electrical Connections
Question:	Signage indicating the prohibition of light fixtures without protective covers is installed at required locations.
Priority Level:	Low
Non-Compliance Level:	3
Description:	No signage indicating the prohibition of light fixtures without protective covers is installed.
Source of Findings:	Visual Assessment: No signs observed.
Suggested Plan of Action:	Light fixtures without protective covers (otherwise known as naked lights) shall not be allowed in storage areas or in any area where the Inspector of the Factories Rules (1.6.3.7) Part 53 disallows these fixtures. Install signs posted in Bengali and English, indicating this prohibition at all entrances to these areas.
Suggested Deadline Date:	06 Aug 2014
Standard:	Alliance Standards Part 10 Section 10.15 Naked Lights

### Emergency Power System

Question:	Is the generator frame earthing (grounding) provided at two separate points?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	There are two gas generators of 1.33MVA and 432kVA and one diesel generator of 220KVA. Diesel generator has 1 point connection.
Source of Findings:	Visual Assessment: Diesel generator is not properly grounded by two separate points.
Suggested Plan of Action:	Have a qualified electrical engineer and install 2 point grounding in generator.
Suggested Deadline Date:	20 Aug 2014
Standard:	Alliance Standard 10.8.2.2

### Lightning Protection System

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Question:	Is a lightning protection system installed on the building?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	The factory does not have any lightning protection system. Lightning protection should be provided for Building 1 (7 storied).	
Source of Findings:	Uploaded Document: Lightning Risk index for building 7 is in the PEOA.	
Suggested Plan of Action:	Have a qualified electrical engineer design a lightning protection system according to the BNBC requirements. Have a licensed electrician install the designed system.	
Suggested Deadline Date:	03 Sep 2014	
Standard:	Alliance Standards Part 10 Section 10.11 Lightning Protection. Calculate Risk Index to determine if required.	