

ELECTRICAL SAFETY INSPECTION REPORT

Mawna Fashions Ltd (Extension)

ID: 25871

Tepirbari, Sreepur, Gazipur

GPS Coordinates: 24.248344 90.427733



Factory List: 1. Mawna Fashions Ltd, ID: 11954
2. Mawna Fashions Ltd (Extension), ID: 25871

Author(s): Md. Khitabul Islam

Reviewed by: Jahidur Rahman

Approved by: S.M. Hasanul Banna Kasemi

Inspected on: 18-Dec-2024

1. INTRODUCTION

The Factory was surveyed for electrical safety by RMG Sustainability Council. The purpose of the survey was to identify significant electrical safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC.

Electrical Safety Audit is a methodical approach to evaluate potential electrical hazards and to recommend suggestions for improvement. The scope of this initial electrical safety inspection was limited to the review and identification of major electrical safety issues. The inspection did not include identification of minor deficiencies, which would be further dealt with as part of follow-up inspections.

2. LIMITATIONS

The information in this electrical safety inspection report was obtained during a visit to the facility and during discussion with local factory management. Services performed by the auditors are conducted in a manner consistent with that level of care and skill generally exercised by members of the engineering and auditing profession. However, an effort has made to discover all meaningful areas under the stipulated time available.

In evaluating subject site, Inspector relies in good faith on information provided by factory management or employees. The Inspector assumes that the information provided is factual, accurate and accepts no responsibility for any deficiency, misstatement or inaccuracies contained in this report as a result of omission or misrepresentation of any person interviewed or contacted.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

3. DEFINITION

3.1. TIME FRAME

The amount of time being allocated based on the remediation work volume of the electrical issues considering the feasibility and ideal status of materials, capital and working condition. Criticality and priority level of the issue is not taken into consideration. It is bound only for the particular finding unless mentioned 'typical', shall include the whole typical findings.

3.2. PRIORITY LEVEL

3.2.1. Electrical issues related to code violation and/or non-conformity with codes possessing immediate fire hazard, direct threat to human safety, shall be considered as **P1** Level of priority. The execution of remediation works shall commence immediately without compromising with any other issues and must be strictly completed within the allocated remediation time frame. It shall include only the critical issues

3.2.2. Electrical issues related to code violation and/or non-conformity with codes, protection of electrical switchgears and equipment, spatial arrangement and location of switchgears and equipment, design and drawings, shall be considered as **P2** Level of priority. The execution of remediation work of **P2** shall commence along with or soon after the **P1** level remediation work has commenced. It shall include only the moderately-critical issues.

3.2.3. Electrical issues related to violation of code and/or non-conformity with codes, workmanship of operation and maintenance and obsolete technology of electrical system, shall be considered as **P3** level of priority. The execution of remediation work of **P3** shall commence along with or soon after the **P2** level remediation work has commenced. Some items can be considered as **P4** level of priority where maintenance work has been performed but remediation is not completed at each place and which does not create additional hazards. **P4** level issues require additional maintenance work to be performed. It shall include only the non-critical issues.

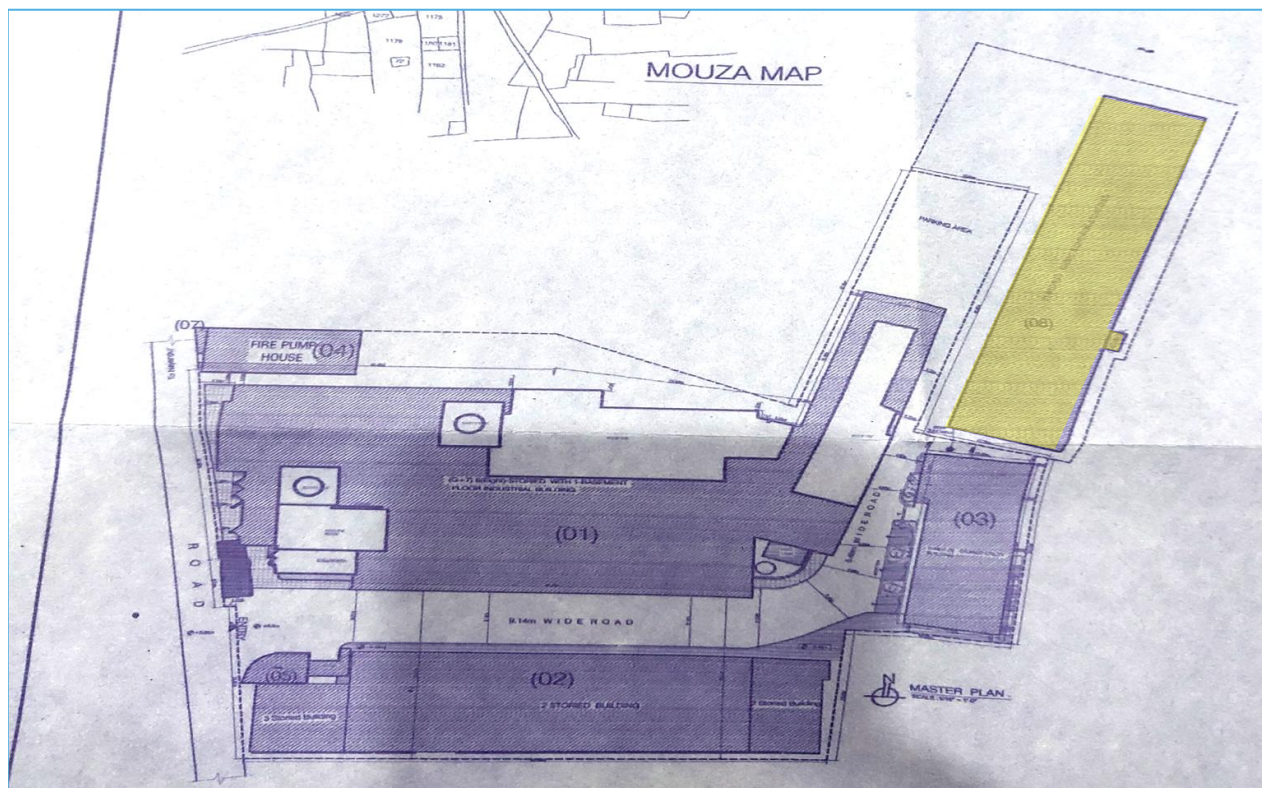
3.2.4. It doesn't take into consideration the remediation time frame and feasibility of remediation. It doesn't take into consideration the capital, materials and working environment.

4. GENERAL BUILDING INFORMATION

1. Factory Name:	Mawna Fashions Ltd (Extension)
2. Factory Address:	Tepirbari, Sreepur, Gazipur
3. ID:	25871
4. Inspection participants:	Abu Noman
	Sr. Manager (Compliance)
	Cell: +88-01713365407
	E-mail : noman@dnl-group.com

Md. Elias Khan
Dy Manager (Utility)
Cell: +8801704112812
Email: elias.utility@dbl-group.com

5. BUILDING INFORMATION



Factory Premises Layout with building number and IDs

Building 1: Production building and office (8 storeys), ID:11925

Building 2: Production and office (3 storey), ID:11925

Building 3: Utility and energy building (3 storey), ID:11925

Building 4: Fire Pump Room, ID: 11925

Building 5: Security room, Fire command station, ID:11925

Building 6: Single Storied Fabric Store Shed, ID:25671



Building 6: Single Storied Fabric Store Shed
(steel shed-9333sqfts)

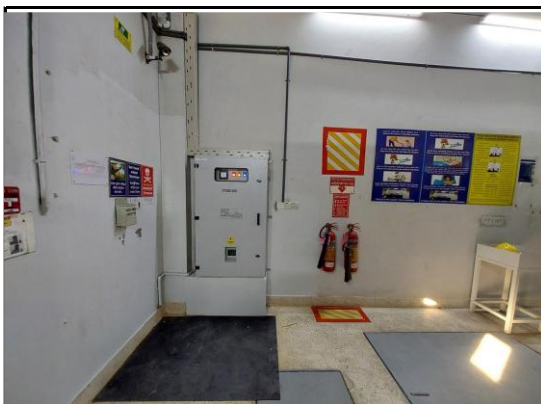
Construction Start:	Feb-22
Construction End:	Dec-22
Operation Start:	Feb-23
No. of Worker:	7
LPS:	Required
Ground Floor:	Fabric Store, Inspection area and Chemical store.

6. ELECTRICAL SYSTEM & UTILITY INSTALLATION INFORMATION

Mawna Fashions Ltd (Extension) premise is connected to Utility Panel/CKT-18/160A MCCB of Mawna Fashions Ltd. (Id:11925), which is the main source of power supply.

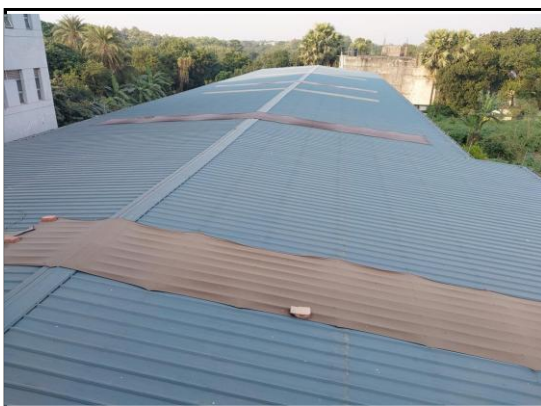
Electrical system and Utility installation information at a glance:

Distribution Board (DB)



No. of Panels: 1

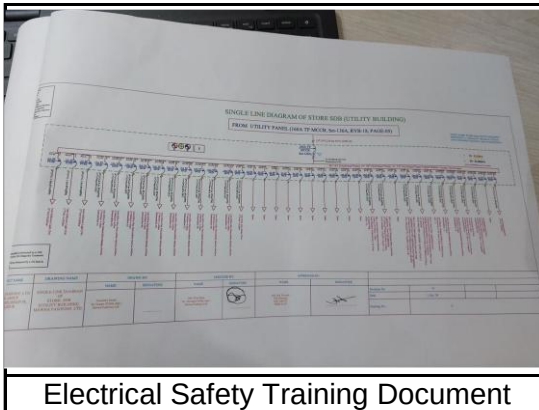
Installed Lightning Protection System



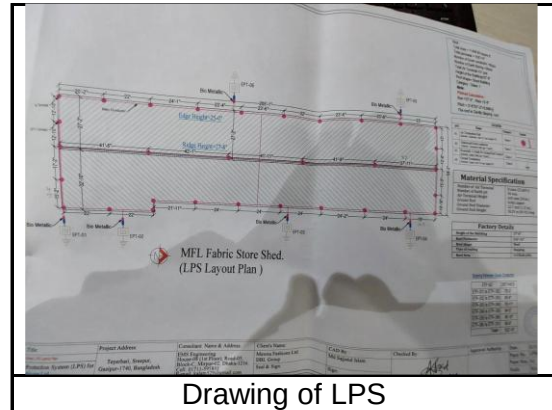
Remarks (if any) LPS installed as per drawing following NFPA 780 and verified during inspection.

7. ELECTRICAL PRACTICES IN OPERATION AND MAINTENANCE

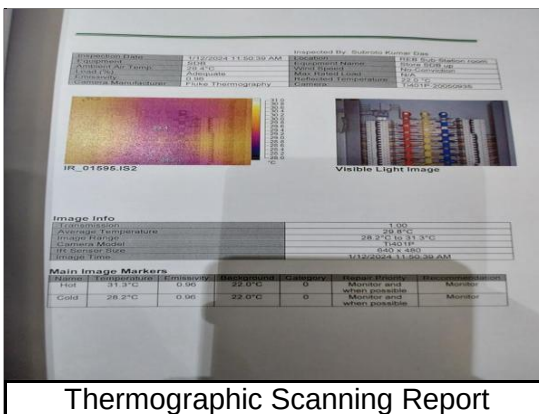
Few examples of Electrical drawing, maintenance programs and test report are shown below:



Electrical Safety Training Document



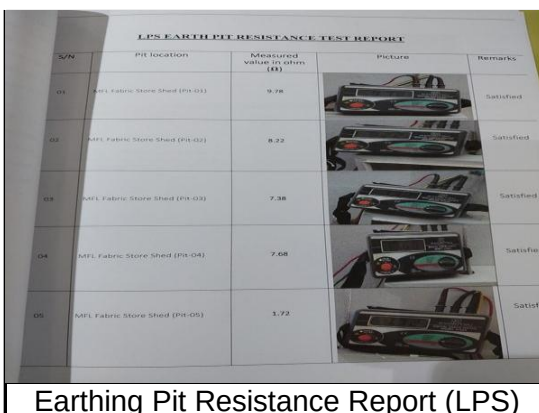
Drawing of LPS



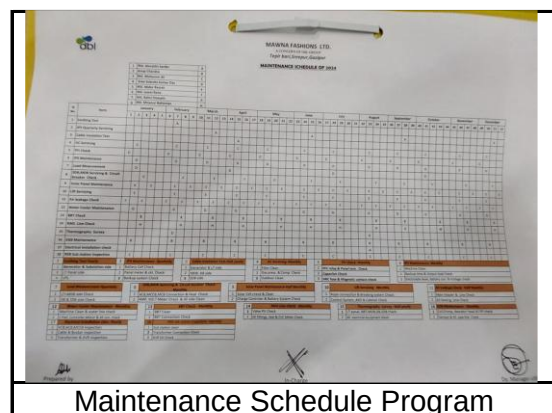
Thermographic Scanning Report



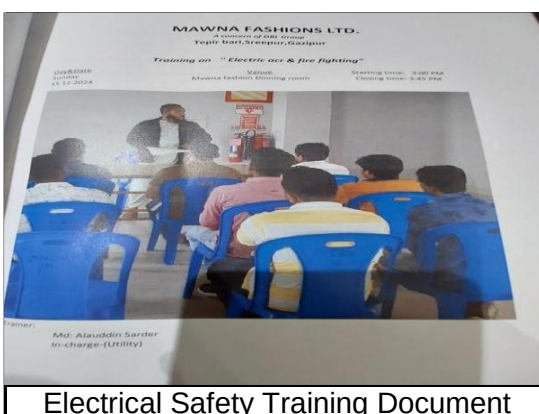
Insulation Resistance Test Report



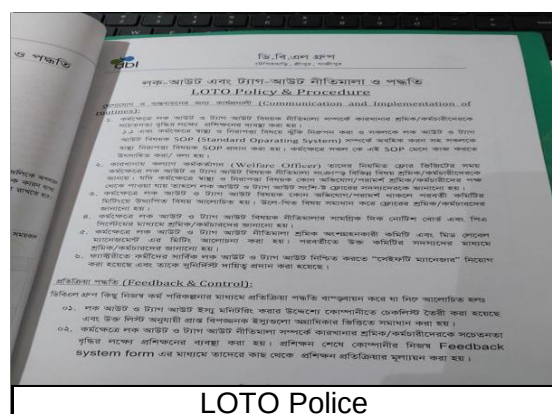
Earthing Pit Resistance Report (LPS)



Maintenance Schedule Program



Electrical Safety Training Document



LOTO Policy

8. FINDINGS AND RECOMMENDATIONS

The table below summarizes the major electrical hazards identified during the walk-through inspection. Recommendations have been provided for each finding.

The implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for an approval.

Item No	Inspection Observation	Inspection Action Plan (Recommendation)	Priority	Inspection Time line (given in report)	Pictorial Evidence
1	Field information has no/less reflection in existing SLD.	As-built Electrical Single Line Diagram (SLD) must be prepared by a qualified engineer, including all essential details of the electrical system. This diagram must be reviewed and approved by the RSC. The accepted SLD needs to be implemented at the factory. All cables, all circuits, all terminals, all equipment are required to be identified as per the accepted Single line diagram.	P2	3 Months	