

ELECTRICAL SAFETY INSPECTION REPORT

KNIT BAZAR (PVT.) LTD.

40/41, Vadam, Tongi, Gazipur, Bangladesh.



Factory List:

1. Knit Bazar (Pvt.) Ltd.

Inspected on April 5, 2014



SUMMARY

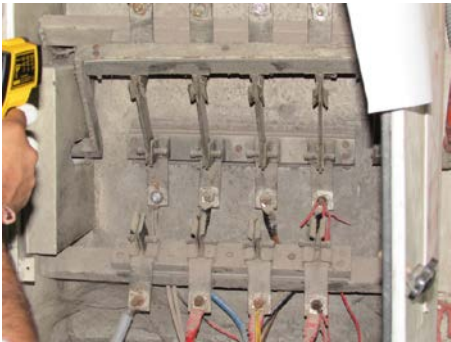
Knit Bazar (Pvt.) Ltd. has 2 nos. of building and started production in 2012. Main building (5-storied building) is used for production and the other building (1-storied building) is used for generator room. Two generators are installed inside 1-storied building. Total height of main building is 60 feet and total floor area is 1300 sq. ft.

The Factory was surveyed for electrical safety by Woosun Energy and Construction Co., Ltd. (WEC). 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 Accord. 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 will be further addressed as part of follow-up inspections.

Table below summarizes the major electrical safety issues identified during the inspection. Recommendations have been provided to address each issue.

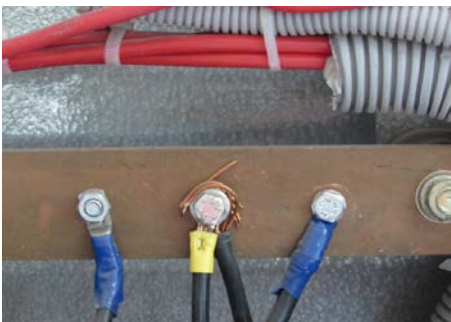
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

FINDINGS AND RECOMMENDATIONS

Finding #: E- 1	 Inside LT panel
Category: SWITCH BOARD & PANELS	
Finding: Earth bonding and base plate of panel are missing.	
Recommendation: Provide earth connection for body and doors of metallic distribution boards using green cables preferably braid so that the metallic door remains at zero potential all the time. Panel base plate must be installed to prevent ingress of lint/dust into the panel. Provide cable gland in the base plate according to the respective cable size for cable entry and exit so that the cables are not stressed on the sharp edges of the hole of panels. Provide covers (of noncombustible material) if any additional gap remains after installing cable glands.	
Remediation Timeframe: Within 3 months	
Finding #: E- 2	 Inside COS panel
Category: SWITCH BOARD & PANELS	
Finding: Excessive dust and lint inside COS panel.	
Recommendation: Disconnect the COS panel from power source and clean the interior of the panel regularly and seal the opening to protect ingress of lint and dusts. Provide covers if any additional gap remains after installing cable glands.	
Remediation Timeframe: Within 1 month	
Finding #: E- 3	

Category: SWITCH BOARD & PANELS	 Cables connected to bus bar
Finding: Cables directly connected to terminal inside COS panel.	
Recommendation: Cables shall be connected to terminals only by soldered/welded lugs according to the size of the respective cables. Proper crimping tools must be used to punch the socket. The connection should be taken from a distribution panel.	
Remediation Timeframe: Within 1 month	

Finding #: E- 4	 Cables outgoing from panel.
Category: CABLE & CABLE SUPPORTS	
Finding: Cables outgoing from panel is not protected and supported by combustible material.	
Recommendation: Combustible material near panel should be removed from below panel. Use covered cable duct/ladder to support the cable at bottom of the panel.	
Remediation Timeframe: Within 3 months	

Finding #: E- 5	 Cables connected to bus bar
Category: SWITCH BOARD & PANELS	
Finding: Incoming cable in the panel directly connected to bus bar.	
Recommendation: Cables shall be connected to terminals only by soldered/welded lugs according to the size of the respective cables. Proper crimping tools must be used to punch the socket.	
Remediation Timeframe: Within 1 month	

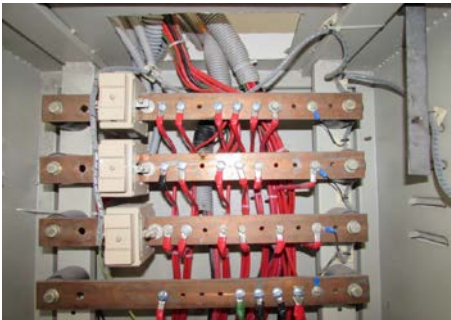
Finding #: E- 6	
Category: SWITCH BOARD & PANELS	

Finding: Terminal of cable duct is not protected with cover.	
Recommendation: Cable duct must be tightly closed(providing end cap) to prevent ingress of lint and dust.	
Remediation Timeframe: Within 1 month	

Terminal of cable duct

Finding #: E- 7	
Category: SWITCH BOARD & PANELS	
Finding: Panel supported by improper material.	
Recommendation: The existing panels should be fixed with the foundation plinth (on concrete floor) with nuts and bolts. If installed on wall, top end of panel shall be at 2 meter at max.	
Remediation Timeframe: Within 3 months	

Panel laid on blocks.

Finding #: E- 8	
Category: SWITCH BOARD & PANELS	
Finding: Mismatched color code of the wires inside the panel.	
Recommendation: Color code should be maintained as per standard i.e. Red, Yellow and Blue colors for phases; Black for neutral and Green for earthing. Panels including its door should be earthed with better earth continuity.	
Remediation Timeframe: Within 1 month	

Cables inside panel

Finding #: E- 9	
Category: CABLE & CABLE SUPPORTS	

Finding: Wiring & flexible PVC conduit is laid directly on the floor.	
Recommendation: Use steel pipe/cable tray to ensure the mechanical protection of the cable laid on floor otherwise cable insulation may damage due to falling object or stepping of occupants onto it.	
Remediation Timeframe: Within 3 months	

Wiring in sub-station.

Finding #: E- 10	
Category: CABLE & CABLE SUPPORTS	
Finding: Excessive dust and lint inside cable duct.	
Recommendation: Disconnect the power source of the cable laid into channel and clean dust and debris of all interior components. Establish a periodic cleaning program and maintain records of the activities. Provide cover made of noncombustible material on the channel for preventing ingress of dust and debris in future.	
Remediation Timeframe: Within 3 month	

Inside cable duct