

ELECTRICAL SAFETY INSPECTION REPORT

INTERLOOP BD LTD.

86, Soydana, P.O. National University, Gazipur, Bangladesh.



Factory List:

1. Interloop BD Limited
2. Eva Sweater
3. Nower Sweater

Inspected on March 9, 2014



SUMMARY

Interloop BD Ltd. occupies only 3 floors of a 6 storied building. The building, reportedly, was constructed in 2008. At present, 561 employees are working there and the total number of employees in building is reportedly about 1,200. Interloop BD Ltd. uses ground, 2nd and 4th floor.

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.

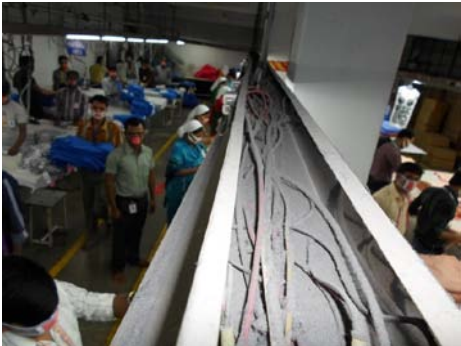
Table below summarizes the major electrical safety issues identified during the inspection. Recommendations have been provided to address each issue.

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 of the changeover switch panel.
Category: SWITCH BOARD & PANELS	
Finding: Excessive dust was found inside of the changeover switch panel.	
Recommendation: Disconnect the panel from the electrical service (switch off the power) and clean interior components of the panel to remove all dust and debris. Seal/block all openings (kept unused at cable entry point or other) within the enclosure to prevent dust and debris from entering inside.	
Remediation Timeframe: Within 1 month	

Finding #: E- 2	 MCCB mounted on wooden board.
Category: SWITCH BOARD & PANELS	
Finding: MCCB mounted on wooden board without enclosure.	
Recommendation: Remove the wooden board and install the MCCB into an enclosure made of galvanized plain sheet (metallic) of minimum thickness 20 SWG in order to reduce the risk of spreading fire due to short circuit.	
Remediation Timeframe: Within 3 month	

Finding #: E- 3	
Category: CABLE & CABLE SUPPORTS	
Finding: Lint/ dust was found inside the cable duct.	
Recommendation: Clean the dust inside the cable-duct and provide cover (made of non-combustible material) for the cable-duct to prevent the further accumulation of dust inside the duct.	
Remediation Timeframe: Within 3 month	Dusty Cable duct in the production floor

Finding #: E- 4	
Category: SWITCH BOARD & PANELS	
Finding: 1) Multiple cables connected at a point on the bus-bar. 2) Lug was found punched improperly during termination.	
Recommendation: 1) Connect all the cable individually on bus-bar(multiple cable shall not be terminated at a same point keeping other area of the bus bar unused). 2) Use proper crimping tool or hydraulic puncher to punch the cable-socket/lug during termination (hammer shall not be used to punch lugs). After punching the lug, PIB tape and then PVC cable-sleeve (heat-shrinkable type preferably) shall be used instead of using only PVC/electric- tape.	
Remediation Timeframe: Within 1 month	Improper termination inside the SDB.

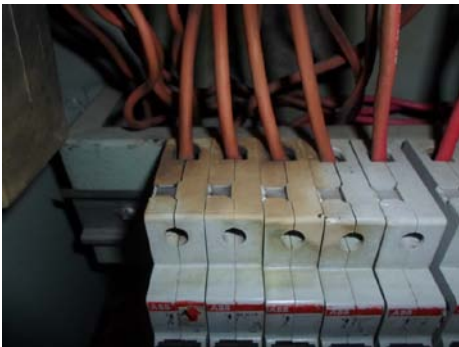
Finding #: E- 5	
Category: CABLE & CABLE SUPPORTS	
Finding: Damaged flexible conduit goes under the table without proper support.	
Recommendation: Wiring for connections to machines shall be carried in steel pipes or cable tray(with metal cover) running in concrete or over the floor(clamped properly on floor).Where steel pipe/tray cannot be used, industrial graded flexible pipes shall be used with proper support(instead of using normal PVC flexible pipes). See standard details in Accord Standard 10.3.2.4	
Remediation Timeframe: Within 3 month	Flexible conduit under the sewing machine table

Finding #: E- 6	
Category: CABLE & CABLE SUPPORTS	
Finding: Cables are connected to the panel without providing any support(without gland fixation).	
Recommendation: Block the opening in base plate or cable-entry-openings & keep the provision for gland fixation for incoming and outgoing cables.Cables shall be connected in the panel through the glands.	
Remediation Timeframe: Within 3 month	Cable connected to panel without proper material

Finding #: E- 7	
Category: CABLE & CABLE SUPPORTS	
Finding: Cable is run in the ceiling at an angle.	
Recommendation: Cables shall be run either horizontally or vertically(not at an angle).	
Remediation Timeframe: Within 3 month	Cable run on the ceiling

Finding #: E- 8	
Category: SWITCH BOARD & PANELS	
Finding: Earth wire of SDB door is not installed.	
Recommendation: Provide earthing connections for all panels' door in the factory (with flexible copper braids preferably).	
Remediation Timeframe: Within 1 month	Opened SDB door

Finding #: E- 9	
Category: SWITCH BOARD & PANELS	
Finding: Wire is jointed inside panel and the wire is terminated without providing any cable-socket.	
Recommendation: Terminate all the cable providing copper cable socket/lug (size according to the respective cable size) on bus-bar individually. Use proper crimping tools for punching the lug/connector.	
Remediation Timeframe: Within 1 month	Strip connection inside the panel

Finding #: E- 10	
Category: SWITCH BOARD & PANELS	
Finding: Burning sign was observed at the termination point of MCB, which might be induced from the loose connection.	
Recommendation: Replace the burnt MCBs and make sure all the termination are tight. Arrange a periodic inspection and thermal scan for identifying the loose connection and overloading which may induce unexpected heat-rise.	
Remediation Timeframe: Within 1 month	Burnt MCCB inside the panel.