

ELECTRICAL SAFETY INSPECTION REPORT

DEKKO KNITWEARS LTD

Plot # I/5, I/7, I/9, I/11 and I/13, Road # 6, Section-7, Mirpur, Dhaka

GPS Coordinates: 23.819840, 90.364283



Factory List: Dekko Knitwear Ltd (12843)

Inspected by : Banna Kasemi & Hlaumay Marma
Report Generated by : Banna Kasemi & Hlaumay Marma

Inspected on : May 16, 2017

SUMMARY

The Factory was surveyed for electrical safety by Stichting Bangladesh Accord Foundation. 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.

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.

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.

Dekko Knitwears Ltd factory was established in its one RCC production buildings. As reported by the Factory Management, building was constructed in around end of 1986. The current management has taken over this building from January 2017. Production has also started in January 2017 in the name of Dekko Knitwears Ltd. During the time of the Inspection, the factory accommodated a total of 940 workers working in this factory. The five storied (G+4) i.e. factory building is 65 feet tall and has a total floor area of approx. 55,885 sqft.

Factory premise is connected to national grid (DESCO) supply, which is the main source of power supply tapped from 11kV OH line and delivered through HT cable, protected by 11 kV DO fuse (25A) and 11 kV isolator disconnect switch and 630A LBS with 32A fuse in HT switchgear panel. The 11kV supply is stepped down by 400 kVA x 1 no, 11/0.415kV, 3 phase power transformer installed in substation located in utility house of ground floor of only production building.



FINDINGS AND RECOMMENDATIONS

The table below summarizes the major electrical hazards identified during the walk through inspection. Recommendations have been provided to 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 Accord for an approval.

FINDING NO:	E - 1	
CATEGORY:	TRANSFORMER ROOM	
FINDING:	High voltage equipments are placed near the entrance aisle without any separation. This is the only entrance of both the substation room and LT panel room. Again, on the entrance of the substation room, generators, compressors and other utilities are installed without separation.	
RECOMMENDATION:	A separate exit is required as the separation of transformer room will make an obstacle of cross ventilation in transformer room.	
PRIORITY:	P1	
REMEDICATION TIME FRAME:	2 MONTHS	

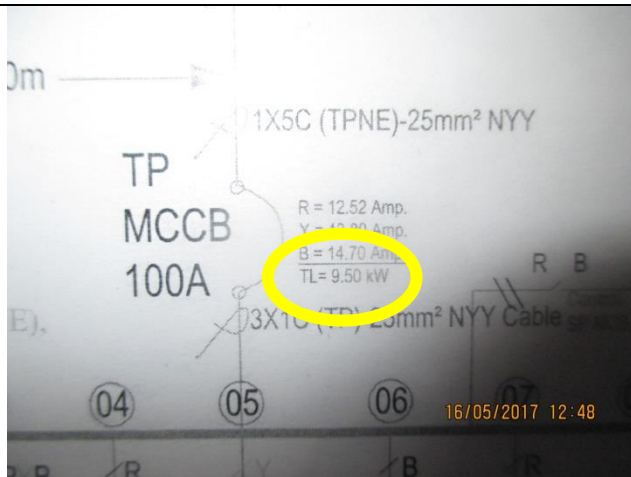


A photograph showing the entrance to a transformer room. A large red door is open, revealing the interior. Above the door, there are several signs: a yellow one with text in Hindi, a green one that says 'LIFTED ROOM', and a red one that says 'NO SMOKING'. To the left of the door, there is a clipboard with papers. The room inside has a yellow floor and some equipment visible in the background. A timestamp '16/05/2017 12:10' is visible in the bottom right corner.



A photograph showing the interior of the transformer room. On the left, there is a large metal structure, possibly a transformer or a large container, with various cables and wires connected to it. In the center, there is a white wall with a red fire extinguisher mounted on it. To the right, there are two large, light-colored metal cabinets or panels. A timestamp '16-05-2017' is visible in the bottom right corner.

FINDING NO:	E - 2	
CATEGORY:	DISTRIBUTION BOARD/PANEL	
FINDING:	MCCBs are not adjusted per load demand.	
RECOMMENDATION:	All the MCCBs must be adjusted per rated load current; if adjustment is not possible, replacement will be the only way.	
PRIORITY:	P1	
REMEDIATION TIME FRAME:	1 MONTH	





FINDING NO:	E - 3	
CATEGORY:	DISTRIBUTION BOARD/PANEL	
FINDING:	Hot spots were observed at several points.	
RECOMMENDATION:	Hot spots must be eliminated from entire electrical system and shall be always carried forward.	
PRIORITY:	P1	
REMEDIAION TIME FRAME:	1 MONTH	

FINDING NO:	E - 4	
CATEGORY:	WIRING SYSTEM	
FINDING:	Main BBT passed through store room and without any separation.	
RECOMMENDATION:	BBT in store room has to be properly separated/ concealed with fire rated materials.	
PRIORITY:	P1	
REMEDIAION TIME FRAME:	1 MONTH	

FINDING NO:	E - 5	
CATEGORY:	TRANSFORMER ROOM	
FINDING:	No LOTO (Lock-Out-Tag-Out) policy is introduced for safety of the personnel during any kind of maintenance work.	
RECOMMENDATION:	Need to introduce and implement LOTO policy with LOTO (Lock-Out-Tag-Out) device instead of any other means to ensure safety of the personnel during any maintenance.	
PRIORITY:	P2	
REMEDIAION TIME FRAME:	1 MONTH	

