

ELECTRICAL SAFETY INSPECTION REPORT

UHM LTD

Plot No: 240, 241, 242, 243 & 255, Adamjee Export Processing Zone,
Siddhirgang, Narayanganj



Inspected by
Report Generated by

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Inspected on : August 7, 2016

ACCORD
on Fire and Building Safety in Bangladesh

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.

UHM Ltd. factory is established in its 1 pre-fabricated production building with 1 pre-fabricated building for storage and ware house and 2 RCC constructions (utility building and substation building). As reported by the Factory Management, 2 pre-fabricated buildings were constructed in around August, 2015 and the production began in around September 2015. During the time of the Inspection, the factory accommodated a total of 1483 (single shifts) workers working in this factory.

UHM Ltd factory premise is connected to grid (BEPZA) 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 and 11 kV isolator disconnect switch and 630A VCB with an HT switchgear panel. The 11kV supply is stepped down by 1000 kVA x 1 no, 11/0.415kV, 3 phase power transformer installed in substation located in substation building.

Maintenance and Operations is done by in-house electrical and maintenance team of the factory. However, the maintenance of major equipment like transformer, generator and boilers are sometimes outsourced to the service centers.



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	E - 1
CATEGORY:	DOCUMENTATION
FINDING:	Electrical Single Line Diagram (SLD) is not amended properly. Again SLD has discrepancy with system at some point.
RECOMMENDATION:	Amend Electrical SLD properly. Mention all the modification there as present in the factory. Prepare SLD more informative thus anyone can understand it. Again, list of circuit or SLD of existing circuits shall be available for each electrical panel board.
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

FINDING	E - 2		
CATEGORY:	LIGHTNING PROTECTION SYSTEM		
FINDING:	Lightning Protection System(LPS) has not installed yet.		
RECOMMENDATION:	Install LPS for your factory.		
PRIORITY:	P1		
REMEDIATION TIME FRAME:	2 MONTHS		

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FINDING	E - 3
CATEGORY:	SUBSTATION ROOM
FINDING: Substation room has inadequate ventilation.	
RECOMMENDATION: Ensure/Arrange cross ventilation substation room;	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH



FINDING	E - 4
CATEGORY:	BOILER & COMPRESSOR
FINDING: Improper and bare steam pipes formed obstacle in boiler room.	
RECOMMENDATION: Make the trench bearing floor height and cover it by appropriate materials. Again insulate the steam pipe properly.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH



FINDING	E - 5
CATEGORY:	EARTHING SYSTEM
FINDING: Exhaust fan body and metal enclosure has no earth connection.	
RECOMMENDATION: Ensure earth collection for exhaust fan motor frame and metal enclosures.	
PRIORITY:	P2
REMEDIATION TIME FRAME:	1 MONTH

