

BANSANG HOSPITAL



MINISTRY OF HEALTH & SOCIAL WELFARE

The Gambia

Project: Re-Wiring and Installation of LED Lights in Bansang Hospital

Project Terminal Report

(February-April, 2016)

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INTRODUCTION

Reliable supply of water and electricity is critical to the operations of any health care facility especially a tertiary healthcare institutions. In case of Bansang Hospital, water is constantly available to keep the hospital clean, disinfect clinical instruments, surfaces and perhaps more importantly hand washing to prevent the spread of hospital-acquired infections. Although the hospital enjoys 24/7 water supply, the same cannot be said of electricity. The electricity supply is limited (4 hours during the day and 7 hours in the evening) and perhaps what's more concerning is that the entire electrical infrastructure is obsolete with several electric sparks, power failures and six fire incidents in 2015.

According the report by the Bansang Fire and Rescue Services following the fire incident in August 2015, poor electrical installations, high load on an old and poorly maintained distribution equipment and sub-circuit wiring were to blame for the fire. The department advised the installation be replaced with modern equipment that conforms to health and safety standards. The department went further to warn that failure to modernize the installation could lead to a major fire outbreak with potentially huge damage to the hospital or electric shocks to patients, staff or visitors.

Furthermore, with funding from the Bansang Hospital Appeal (BHA) the Contract Committee of the Hospital Management identified the most competent company in The Gambia to do the re-wiring and installation of modern electric equipment and LED lights. **The LED Lighting Solutions Ltd** commenced work in February and completed the final installation in April.

Finally, on behalf of the Hospital Management and the entire community of Bansang, we would like to express our sincere thanks to Mrs. Anita Smith (BHA) and all those who contributed to the realisation of this important project. We wish to thank-you all from the bottom of our hearts.

AIMS AND OBJECTIVES

The project aimed to achieve the following:

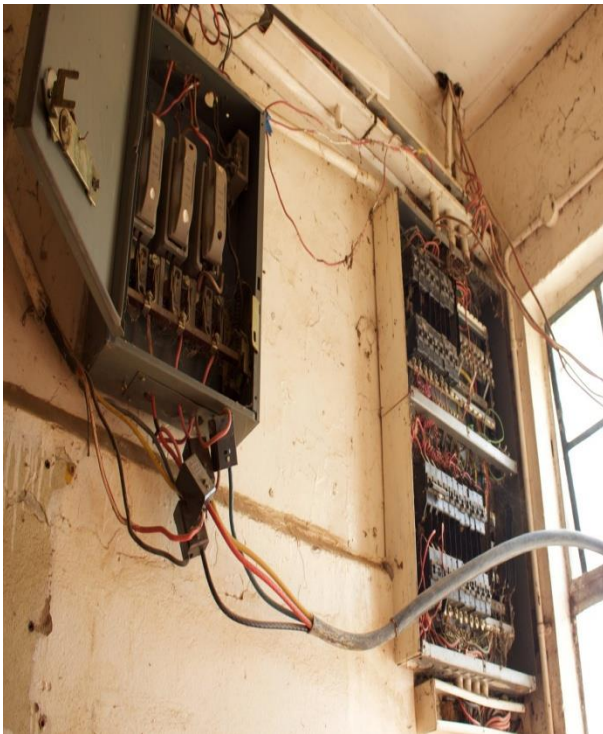
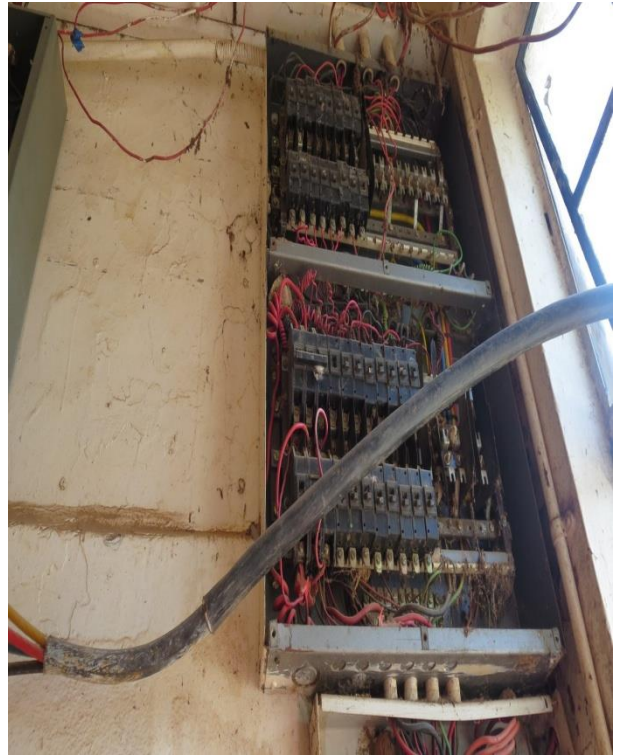
- I. Overhaul the old and obsolete electrical installation and replace it with a modern system that conforms to Health and Safety Standards
- II. Install a modern system that can accommodate present and future power needs of the hospital.
- III. Prevent electric sparks, shocks and fire outbreaks

PROJECT SCOPE

The project involves the following:

- I. Provision and Installation of power mains and sub mains distribution equipment
- II. Re-wiring of the Male Ward, Female Ward, Maternity Department, Children's Ward, Eye Ward, Laboratory Department, Pharmacy, Radiology(X-Ray) Unit, Out-Patient Department, Operating Theatre, Nurses' Duty Room, Office of the Principal Nursing Officer, Mortuary, Security Unit, Kitchen, Food Stores and Laundry Unit.
- III. Installation of circuit breaker distribution boards, sub circuit wiring with switches, sockets and lighting points to accommodate LED lights with all trunking, cabling and second fix installation.
- IV. Installation of second generation LED lights.

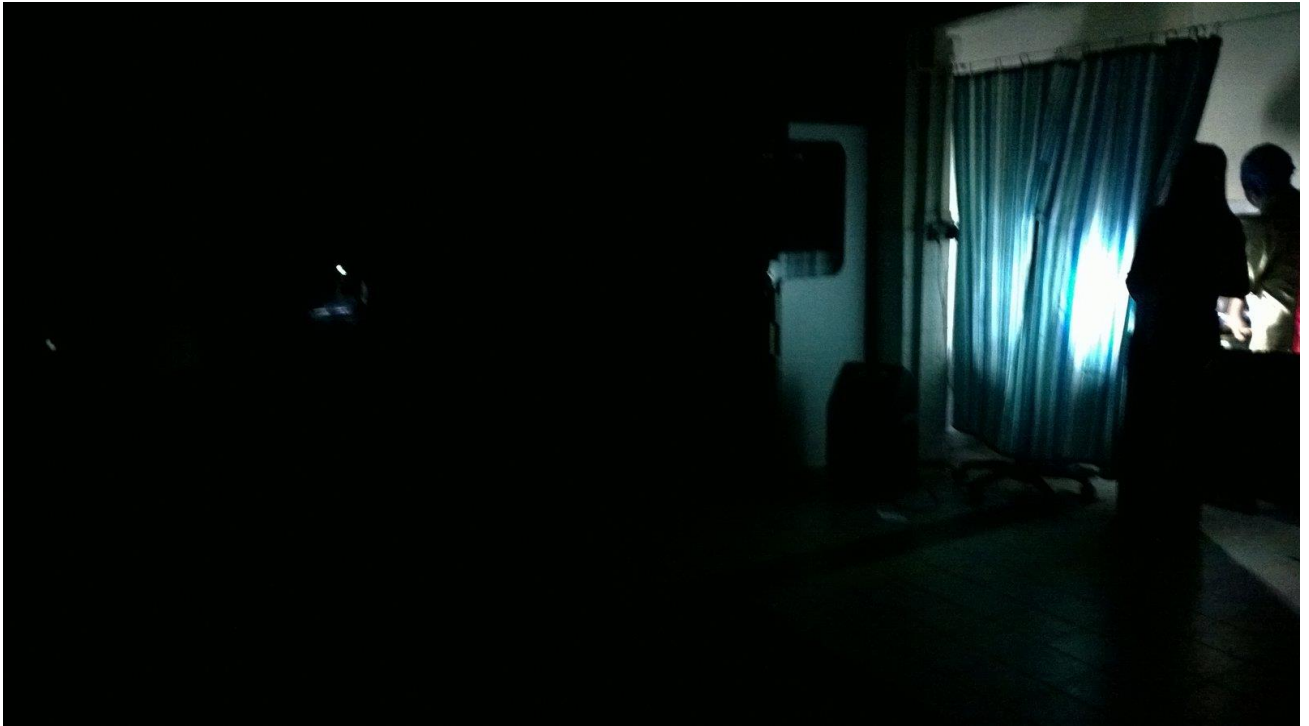
STATE OF ELECTRICS BEFORE THE PROJECT



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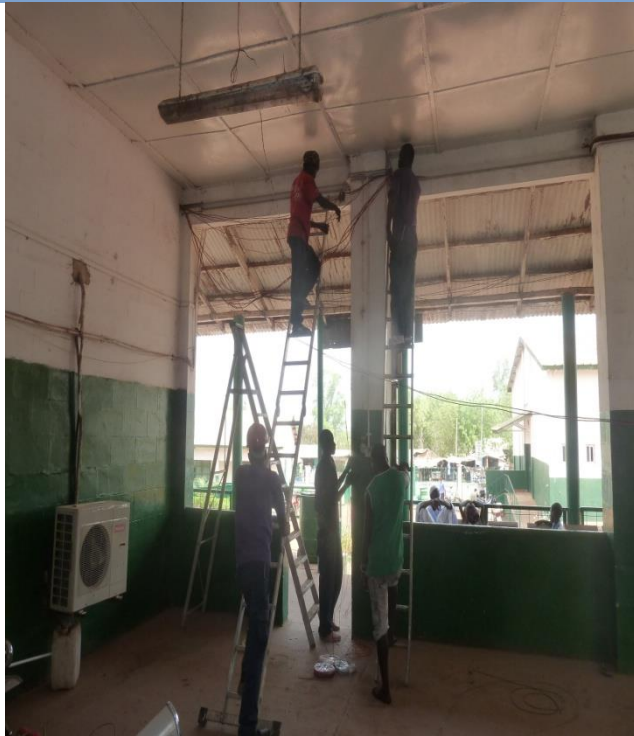
FIRE INCIDENT RESULTING FROM POOR WIRING



FIRE INCIDENT RESULTING FROM POOR WIRING



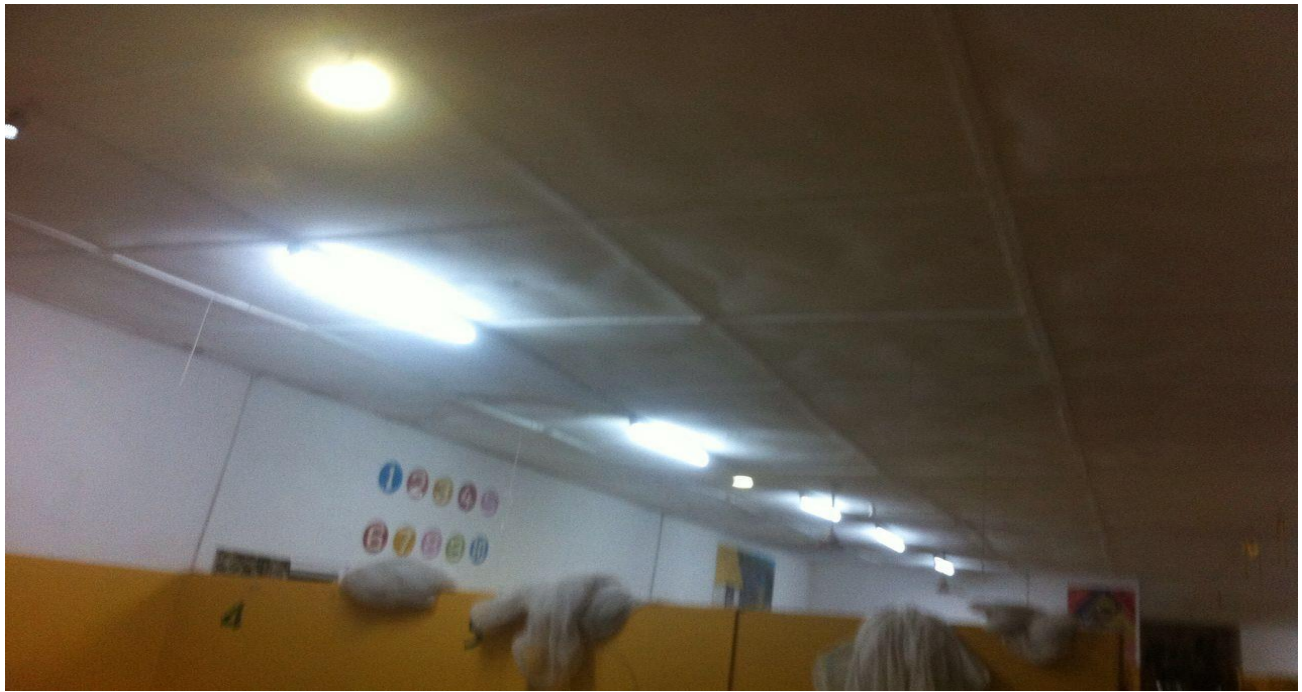
PROJECT PROGRESS (Feb-May 2016) Re-wiring and Installation of Electrical Equipment



COMPLETED WORKS



COMPLETED WORKS











"BEFORE" AND "AFTER" PHOTOS

BEFORE



NOW



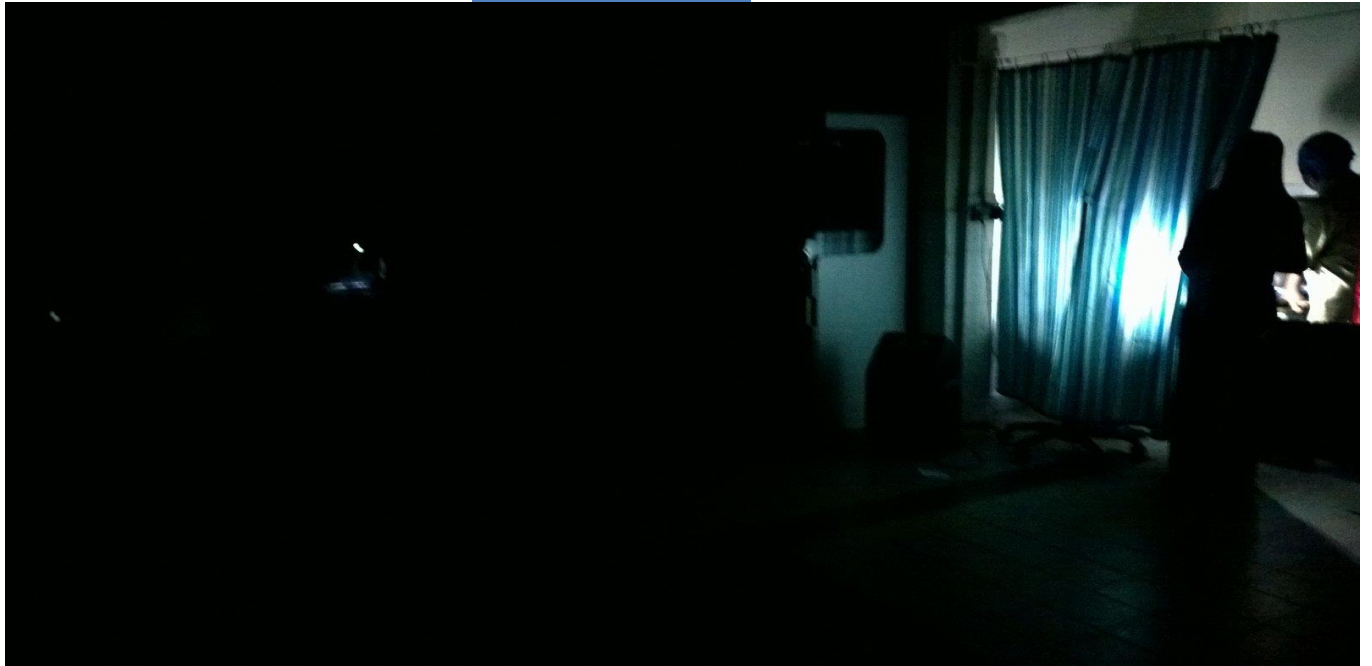
BEFORE



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BEFORE



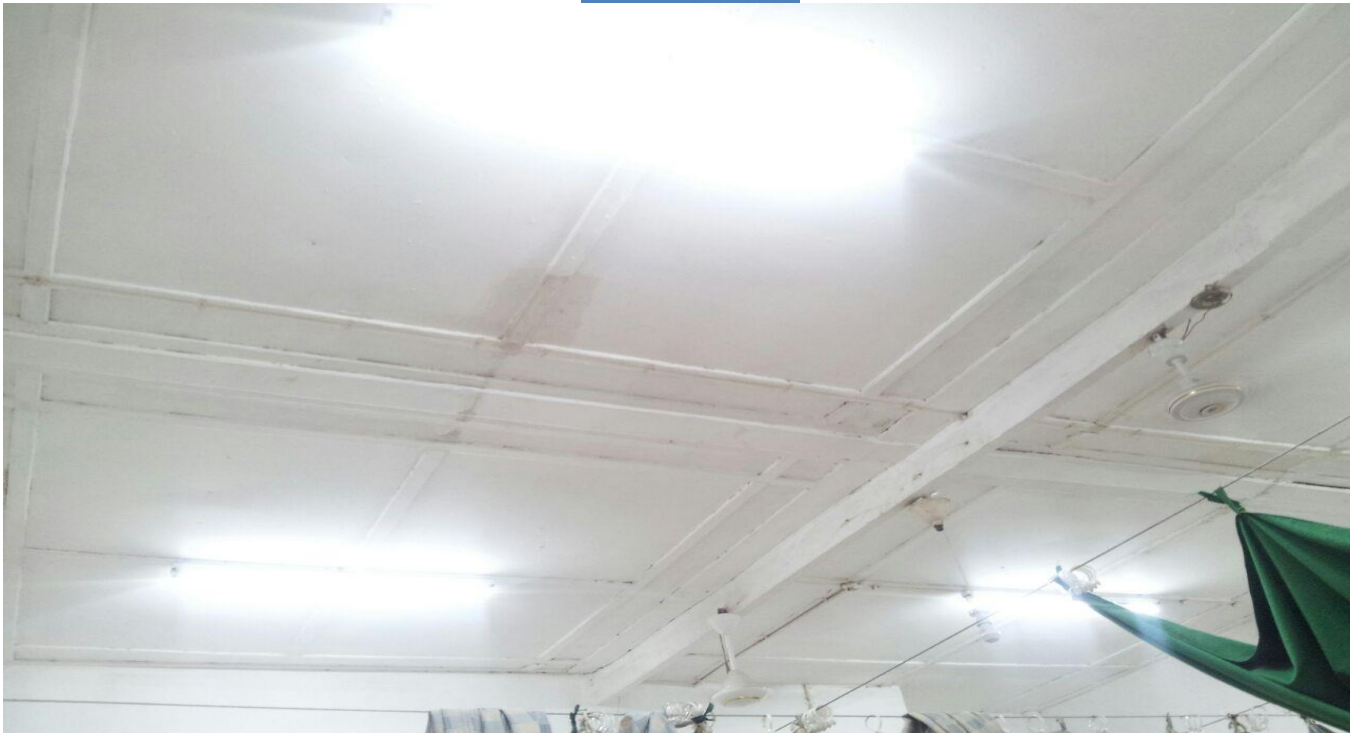
NOW



BEFORE



NOW



CONCLUSION

This project truly transformed the hospital electricity and lighting system .All service delivery points have been re-wired, obsolete and dangerous electrical installations replaced with modern ones. In addition, the often poorly lit wards and walk ways have been fitted with bright LED lights. The reactions/feedback from staff have been positive and overwhelming. It was hard for everyone to hide their joy when the project was completed last month.

According to Mariama Sowe (Midwife) working at the Maternity Department, the new LED lights have made work easier for them. They no longer have to strain their eyes to conduct deliveries under poor lighting. Ebrima Sowe (Head-Pharmacy Department) expressed delight about the project and said medication errors resulting from wrong dispensing of drugs can be greatly minimized. As for Sainabou Joof (orderly) the lights have improved security and safety in the hospital.

In conclusion, the Management and Staff of Bansang Hospital convey their heartfelt and sincere appreciation to Bansang Hospital Appeal and friends of Bansang Hospital for giving magnificent project.

