

Project Report: Air Conditioning, Plumbing, Electrical Wiring, and CCTV Installation at Azure Properties – Michamvi, Zanzibar (2024)

Introduction

In 2024, GBS Trusted Company Limited was entrusted with a comprehensive infrastructure project at Azure Properties, Michamvi – Zanzibar. The project involved the installation of air conditioning systems, plumbing, electrical wiring, and CCTV surveillance systems to enhance comfort, safety, and efficiency.

Objectives

- Provide modern and reliable air conditioning systems for all property units.
- Install plumbing networks to ensure safe water supply and efficient drainage.
- Implement electrical wiring systems that meet local and international standards.
- Enhance security and monitoring through CCTV camera installation.
- Deliver a project that increases both value and safety of Azure Properties.

Scope of Work

Air Conditioning Installation:

- Installation of split-type and central AC systems.
- Copper piping, ducting, and refrigerant charging.
- Testing and commissioning of all units.

Plumbing Works:

- Cold and hot water supply system (PPR piping).
- Drainage, sewage connections, and sanitary fitting installation.
- Water storage tanks and pumping systems.

Electrical Wiring:

- Installation of main distribution board and sub-distribution boards.
- Internal wiring for lighting, sockets, and HVAC systems.
- Earthing, surge protection, and backup generator provision.

CCTV Camera Installation:

- Structured cabling for IP cameras.
- Installation of indoor and outdoor surveillance cameras.
- Integration with DVR/NVR for recording and monitoring.
- Testing and commissioning of the security system.

Project Location

Azure Properties – Michamvi, Zanzibar.

Project Duration

Start Date: February 2024
Completion Date: December 2024

Resources Deployed

- Skilled technicians: HVAC engineers, plumbers, electricians, and ICT/security specialists.
- Materials: AC units, copper and PPR pipes, electrical cables, DB boards, CCTV cameras, DVR/NVR equipment.
- Tools: vacuum pumps, pressure testers, welding tools, crimping/testing kits, CCTV installation tools.

Challenges

- Import delays for specialized HVAC and CCTV equipment.
- Harsh coastal environment (humidity, salt corrosion).
- Coordination between multiple trades (mechanical, electrical, ICT).

Outcomes

- Fully functional AC systems, ensuring comfort and efficiency.
- Reliable plumbing system for water supply and drainage.
- Safe and efficient electrical wiring network, compliant with standards.
- Modern CCTV surveillance system providing 24/7 security monitoring.
- Increased safety, comfort, and market value of Azure Properties.

Recommendations

- Quarterly preventive maintenance of AC, plumbing, wiring, and CCTV systems.
- Use of corrosion-resistant materials due to coastal conditions.
- Training on CCTV operation, data backup, and system troubleshooting.

Conclusion

The 2024 Azure Properties project at Michamvi – Zanzibar, implemented by GBS Trusted Company Limited, successfully delivered air conditioning, plumbing, electrical wiring, and CCTV systems. The project achieved its objectives of improving comfort, safety, and operational efficiency, positioning Azure Properties as a modern, secure, and high-value development.