

Case Study Summary: 3-Bedroom Residential Home in Suna, Migori

Project Overview

This project involved the **construction of a 3-bedroom residential home** in Suna, Migori County. The development was designed to provide a **comfortable and functional family residence**, incorporating modern construction techniques and durable building materials suitable for the local environment.

Project Location

- **Location:** Suna, Migori County, Kenya
 - **Setting:** A growing residential area within Migori town with increasing demand for quality housing
 - **Accessibility:** Good connectivity to Migori town and surrounding areas through established road networks
 - **Infrastructure:** Access to electricity, water supply, and nearby social amenities such as schools, markets, and healthcare facilities.
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Project Scope

The scope of the project involved the construction of a **single-storey 3-bedroom residential house** comprising:

- **Master bedroom (ensuite)**
- Two additional bedrooms
- **Spacious living room**
- Dining area
- Kitchen with adequate storage space
- Shared bathroom and sanitary facilities
- Front veranda

The works undertaken included:

- Site clearing and setting out
- Foundation excavation and concrete works
- Masonry wall construction using machine-cut stones
- Reinforced concrete lintels and ring beam
- Roofing structure and installation
- Internal and external plastering

- Floor screeding and finishes
 - Installation of doors and windows
 - Plumbing and electrical installations
 - Internal and external painting works
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Design Considerations

Key design considerations for the project included:

- **Efficient space utilization** to accommodate family living
 - **Structural durability** using reinforced concrete elements
 - **Adequate natural lighting and ventilation**
 - **Cost-effective construction methods** suitable for residential developments in the region
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Construction Approach

The construction process followed a systematic approach to ensure quality and efficiency:

1. **Site preparation and foundation works**
 2. **Masonry wall construction and structural reinforcement**
 3. **Roofing installation and weather protection**
 4. **Internal and external finishing works**
 5. **Installation of plumbing and electrical services**
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Project Outcome

The project successfully delivered a **modern and functional 3-bedroom residential home** that meets the client's housing needs. The house provides a **comfortable living environment while maintaining structural safety and durability**.

Conclusion

The 3-bedroom home in **Suna, Migori** demonstrates the effective implementation of residential construction practices that balance **quality, affordability, and modern design**, contributing to improved housing standards in the region.