

ABSTRACT

The population of Kenya is growing and increasing each year and substantial number of those population live within the suburbs of the capital city Nairobi, estimated over 5.5 million. Kenya has also established itself as the preferred real estate investment destination of sub-Saharan Africa and Nairobi acts as commercial hub and gateway to regional market. This indicated the increased demand for modern residential houses.

This project attempted to address this demand by proposing construction of an eleven-storey residential building. The proposed site was in Eastleigh, Nairobi. Structural analysis and design of the building was carried out in accordance with the standard codes of practice such as Eurocodes. Calculations were done with the help of PROKON and Design Spreadsheets and Detailed Structural Drawings prepared using Autodesk Revit software 2023.

The project involved the use of modern construction materials and techniques to ensure the durability and sustainability of the building. The construction process was carried out in phases, starting with the foundation and structural work, followed by the installation of the amenities and finishing work.