

Design & Engineering



Structural
Engineering



Architecture



Infrastructural
Engineering



Mechanical, Electrical
& Pipe Services



Work Preparation &
Cost Estimation



Company Overview

Bringing to bear decades of own and inherited experiences for holistic design and engineering solutions

PrimeTech is a design and engineering company in Nigeria. It has many years of combined experience in creating efficient solutions for construction of buildings, industries, bridges, roads, and infrastructure.

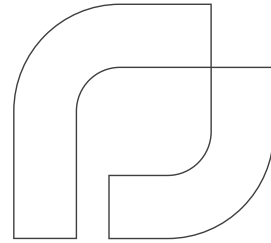
PrimeTech has strong local and international partnerships and uses 5D BIM collaboration, which enables it to deliver complex design projects quickly and to customer specifications, with best-in-class standards for technical consultancy and Front End Engineering Design.



***PrimeTech's** vision is to be the design and engineering partner of choice in Nigeria by securing clients' success through excellence and value.*



Business Segments



PrimeTech's success in delivering complex projects on time can be attributed to its harmonised and coordinated approach to design. Its departments utilise advanced applications such as BIM (Building Information Modelling) to streamline the design process.

The company adopts a one-stop shop philosophy, providing a holistic approach to engineering design. PrimeTech strategically segments its internal corporate business units, enabling efficient collaboration on different aspects of design and engineering services, both internally and externally. This strategy empowers PrimeTech to promptly deliver extensive and intricate projects, establishing itself as a leader in Nigeria's construction industry value chain.

PrimeTech's in-house departments harmoniously working together to deliver top-notch services using BIM are:

- Structural Department
- Architecture Department
- Infrastructure Department
- Mechanical, Electrical and Pipe Services Department
- Work Preparation & Cost Estimation Department

The company is consolidating its inroad into sustainable designs and facility management.

Integrated 5D BIM

3D



GEOMETRY

3-Dimensional
Geographical
Structure

4D



TIME

Timeline,
Scheduling &
Duration

5D



MONEY

Cost
Estimation,
Budget
Analysis

6D



SUSTAINABILITY

Self-
Sustainable &
Energy
Efficient

7D



FACILITY MANAGEMENT

Facility
Management
Information

School Facility, Abuja

Project Description:

The Gymnasium and Pool Remodelling project at an International School in Abuja focused on enhancing the existing pool facilities and expanding the recreational area to accommodate an international standard gymnasium..

Key elements of the design included specialized sports flooring, strategically positioned energy-efficient windows to maximise solar benefits and minimise direct sunlight, and the use of health-compatible interior paints. Safety measures incorporated soft mats and acoustic padding. Notable additions encompassed motorised curtains, basketball backboards, electronic scoreboards, climbing walls, movable bleachers, and an enhanced eastern roof terrace.





Specialist Hospital, Port Harcourt

Project Description:

The main hospital has an estimated gross floor area of 3016 m² with a constant floor height of 3.64m. The main hospital building was designed, utilising flat slab and bored pile foundation.

Ancillary buildings like power house, water treatment facility, waste treatment facility, doctors quarters and radiotherapy bunker buried in the ground were all designed by PrimeTech's Structural Department.

The construction of this facility has improved the healthcare system of Rivers State and contributed to the advancement of the sector in Nigeria.





Office Building, Lagos

Project Description:

This office complex is a distinctive design composed of geometric forms. It aims to stand out in the heterogeneous neighborhood. The tower will feature seven floors and prioritize high-performance glazing for energy efficiency and natural light. Its unique architecture will complement the urban landscape and become a recognizable point of reference. The interior spaces will be flexible to accommodate various uses, such as offices, retail, or residential units.

Sustainability is a key focus, with efficient waste management and renewable energy integration. The office complex seeks to be an architectural masterpiece, combining innovation, visual appeal, and environmental responsibility in Lagos' dynamic cityscape.





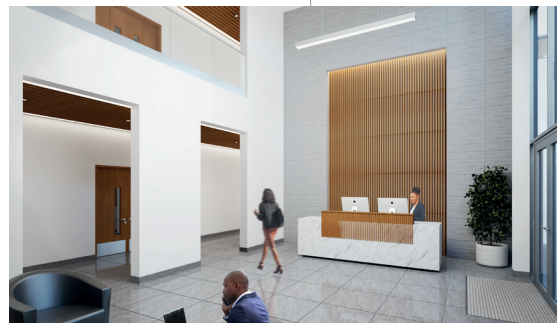
Office Building, Port Harcourt

Project Description:

The project in Port Harcourt Government Area 6 involves the design of a dedicated building to house administrative facilities, including the office of the Deputy Governor. The primary objective was to provide a purpose-built space where government operations could be efficiently carried out.

The building would encompass various essential features such as office spaces, meeting rooms, reception areas, and other necessary amenities. Its strategic location would ensure convenient access for government officials and the public alike.

The aim of this endeavour was to centralize administrative functions, foster effective governance, and facilitate seamless communication and decision-making processes within Port Harcourt.



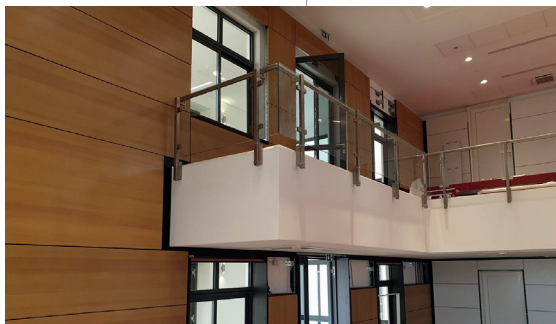
Data Centre, Abuja

Project Description:

The public infrastructure is a technology building, data command, communication and control centre. It was built to serve as a hub for the management of important personal data and, in addition to the data command and control centre, consists of auditorium gallery, lifts as well as open-plan and closed-plan offices.

The building and its ancillary structures were fully designed by **PrimeTech's** Structural Department in record time. The department performed critical foundation analysis due to the steep sloped terrain on the site prior to construction.

Also, **PrimeTech's** Mechanical, Electrical, & Pipe Services team worked on the building's emergency generator, lighting, earthing and lightning protection, data and internet, multi-media, HVAC, fire detection and suppression, and sanitary services.





Marine Control Building, Bonny

Project Description:

This building by the seashore was conceived to track vessels coming into Bonny waters well in advance of their approach to the Island. The building houses a Vessel Tracking Monitoring System and its shell, windows and doors were completely conceived to be bullet proof.

PrimeTech's design teams successfully designed the building according to the client's specification, from value engineering to its detailed design.

The building's bullet resistance capability was designed according to the American Society of Civil Engineers (ASCE) guidelines.



Road Project, Bodo-Bonny

Project Description:

This is the construction of a two-way traffic carriageway of 2 x 3.65 (7.30)m road pavement, 2.75m outer shoulders, with bridges across the Opobo Channel route.

PrimeTech's Infrastructure Department designed the road from KM 0+000 to 4+100. It also designed the various dewatering solutions and support services for the various gas pipeline protection works.

Its Structural Department designed five 3-span mini concrete bridges on cased bored piles, and also designed oil and gas pipeline crossings with all health and safety protocols.



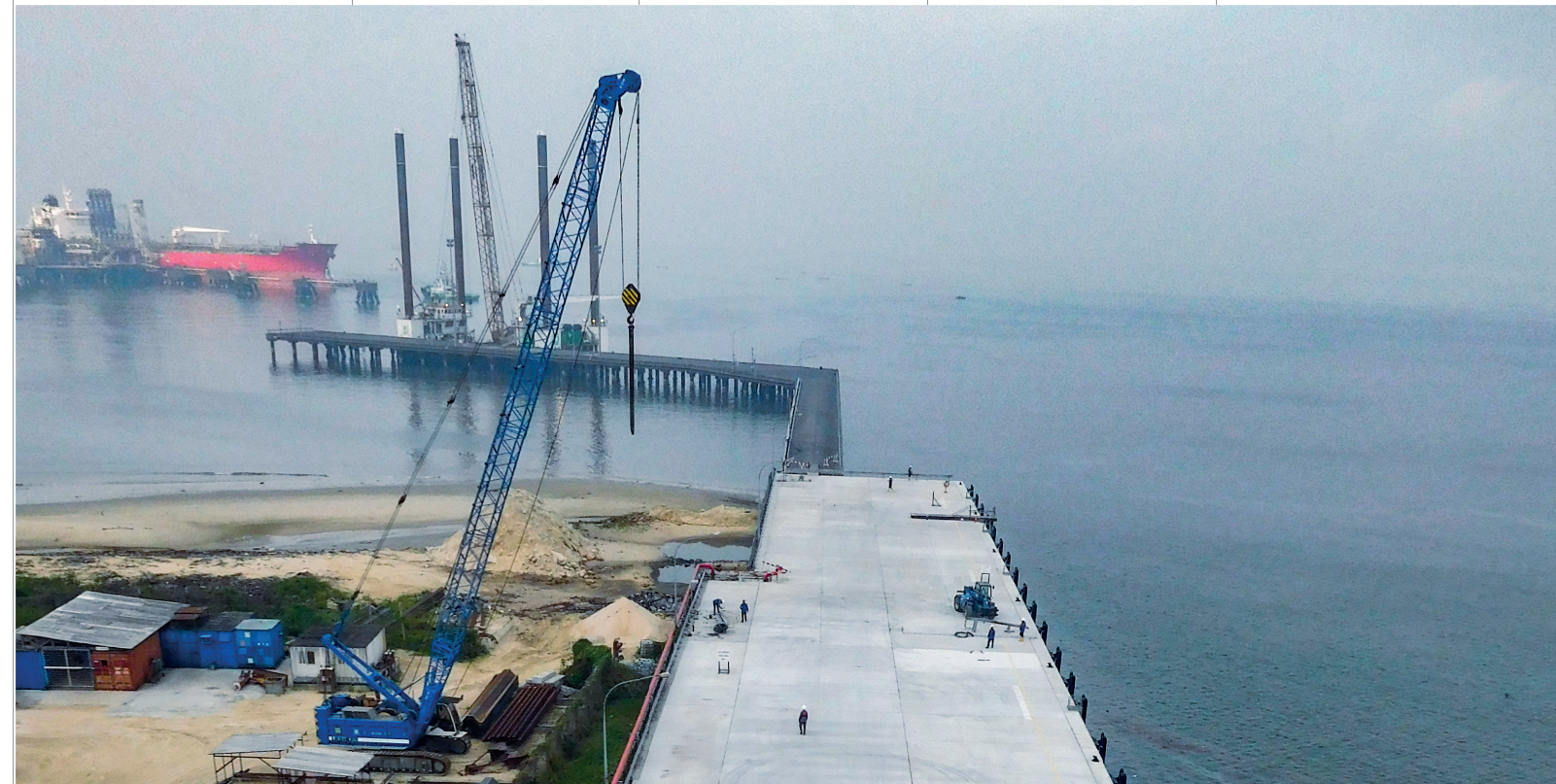
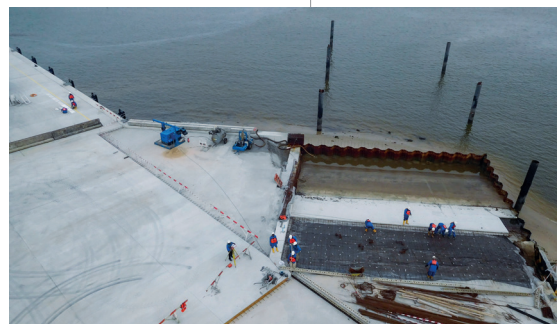
Marine Offloading Facility, Rivers

Project Description:

Originally built in 2003, this material offloading facility was constructed with a service life of 5 years, however, the client recently commissioned an upgrade of the Jetty to a 25-year design lifespan.

The project consists of four sections: the Aggregate Berth, the Ro-Ro Berth, the Bunker Fuel Berth, and the Northern Road Shoreline. The upgrade design services carried out by **PrimeTech** for the project include option selection and concept design, and detail engineering as part of Engineering, Procurement, Construction and Commissioning (EPCC) to the contracting company.

The design was done using special finite element software, manufacturers' design guides and software as well as relevant codes.



PrimeTech Design and Engineering
Nigeria Ltd.

Abuja Office:

Plot 305 Idu Industrial Area 1B
Idu 900 102 | FCT Abuja
RC No. 973930

Lagos office:

4th Floor – Julius Berger Office Complex
No 15 Ijora Causeway
Opp Water Corporation
Ijora Olopa 101253 | Lagos

Phone: +234 803 906 7000

