PRIMETECH

Design & Engineering



Structural Engineering

Architecture

Infrastructural Engineering

Mechanical, Electrical & Pipe Services

Work Preparation & Cost Estimation

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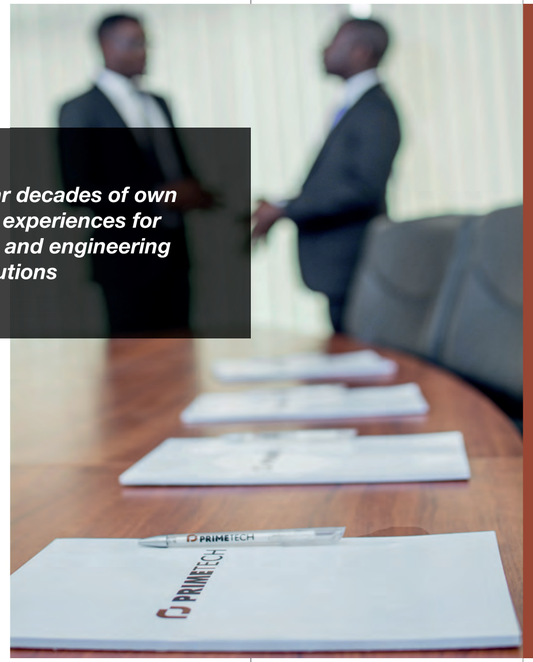
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Company Overview

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.

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

Company Structure

PrimeTech's organisational structure allows for an effective and efficient value delivery system.



Corporate Culture



PRECISION

Thorough preparation, carefully planned design & engineering solutions, structured processes and pinpoint execution



PARTNERSHIP

Mutually agreed upon and realistic goals achieved through professional and collaborative cooperation



INNOVATION

Development of creative solutions and continuous upgrade of technical capacities and support facilities



QUALITY

Balancing aesthetics, function, environment, human, and economic considerations to find solutions.



INVESTED

Committed to project goals, staff and community development



EMPLOYEE DRIVEN

Quality delivery cycle beginning and thriving upon employee-related policies

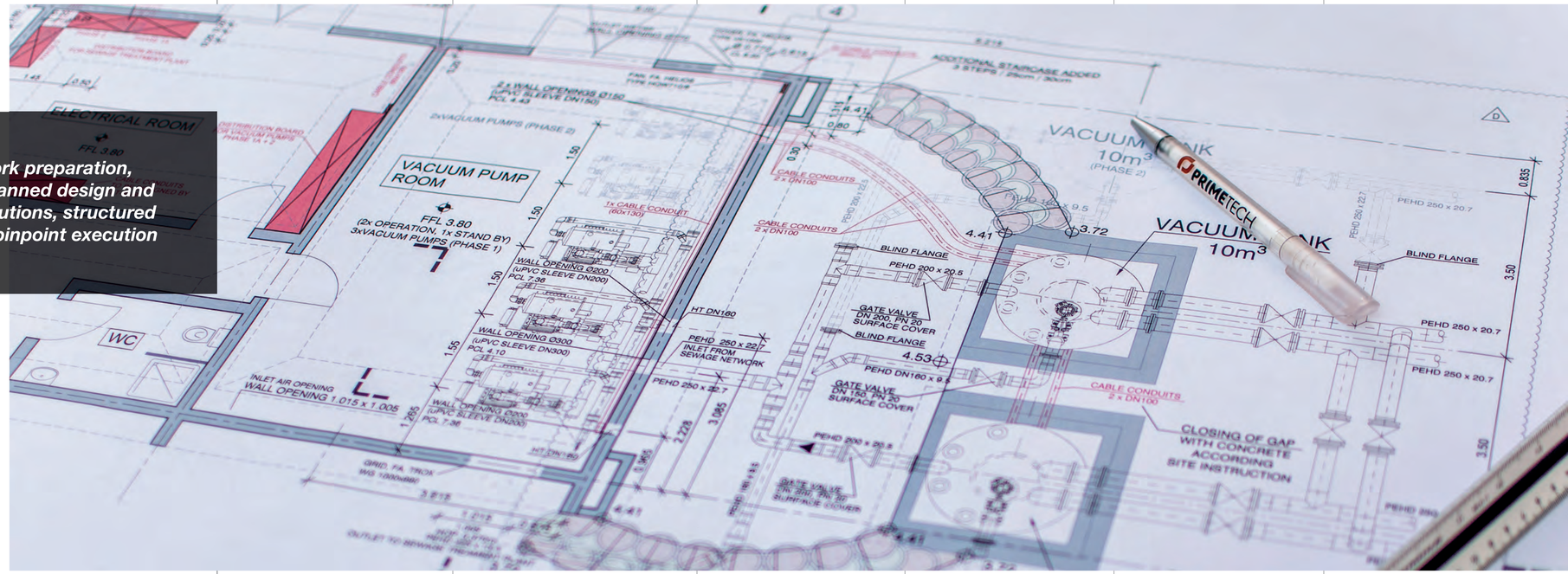


RESPECT

Stimulating respect to boost productivity, collaboration, fairness, employee satisfaction, and extending it to clients and partners

Precision

Thorough work preparation, meticulously planned design and engineering solutions, structured processes and pinpoint execution



PrimeTech places a high emphasis on precision and offers clients ethical, well-planned design and engineering solutions. Its strict attention to detail and scheduling leads to organised, quality-driven processes. It adheres to the ISO 9001:2015 standard and complies with client-specific regulations.

Partnership

Mutually agreed upon and realistic goals achieved through professional and collaborative cooperation

PrimeTech is a dedicated partner that values professional and collaborative cooperation. It focuses on building long-term business relationships based on trust and transparency. The company sets realistic goals for projects based on agreed-upon parameters, and emphasise clear and open processes in all areas, maintaining continuous engagement and communication with clients and partners.

PrimeTech also places importance on the long-term sustainability of its services, both environmentally, economically, and socially. It leads the way in implementing advanced technologies and operational procedures to promote sustainable management practices in Nigeria.



Innovation

Development of creative solutions and continuous upgrade of technical capacities and support facilities

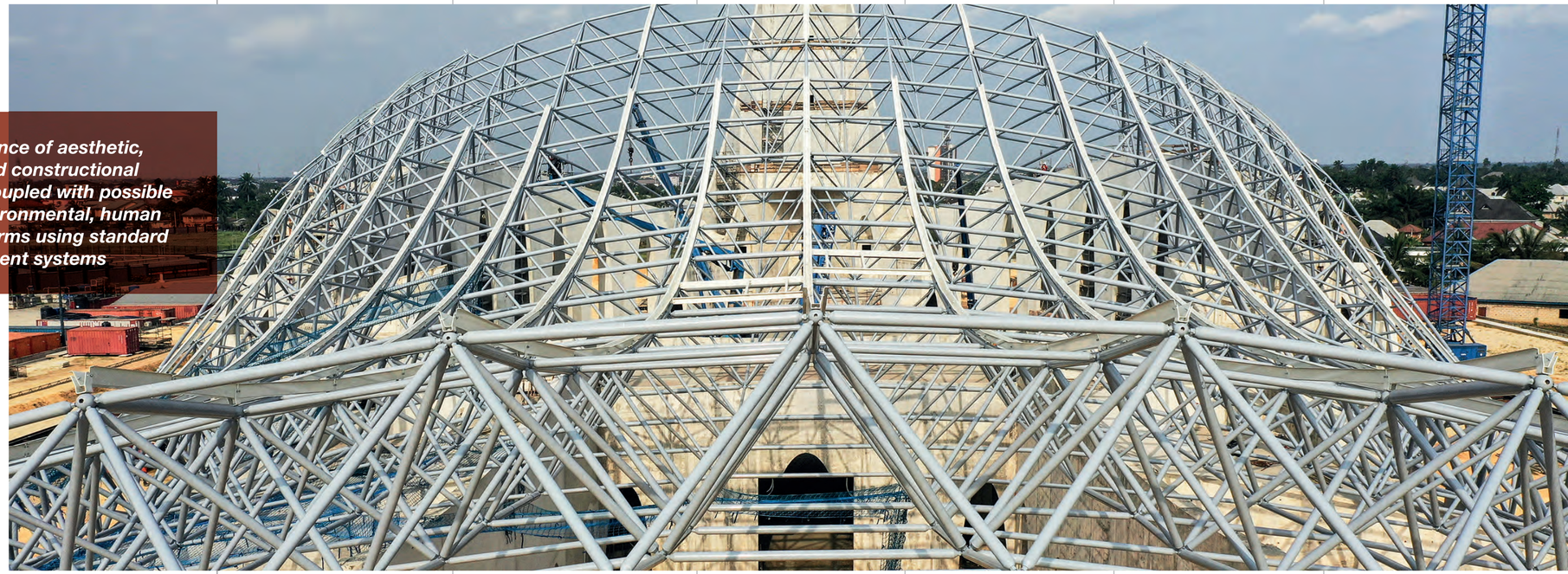
PrimeTech strives for innovation, focusing on developing creative solutions that align with clients' visions. It continuously enhances its technical capabilities and support facilities to expand their expertise in delivering innovative design and engineering. The company ensures the application of advanced methods and techniques by keeping its highly qualified staff updated on the latest domestic and global market developments.

To further enhance its technical proficiency, **Prime**Tech leverages diverse international resources to gain specialized knowledge on emerging trends and cutting-edge technologies. As a leader in sustainable design & engineering in Nigeria, the company maintains an extensive knowledge of the latest green building technology and has team members who have achieved the Leadership in Energy and Environment Design (LEED) Building Design & Construction credential.



Quality

A perfect balance of aesthetic, functional and constructional considerations coupled with possible solutions in environmental, human and economic terms using standard management systems



PrimeTech places quality at the core of its business. It employs a collaborative and interdisciplinary approach, fostering creative interactions within participatory teams. These teams work closely with stakeholders to strike a harmonious balance between aesthetics, functionality, construction, and environmental, human, and economic considerations.

To achieve its goals, **Prime**Tech's includes all five essential providers of design and project management services in its in-house teams.

The company implements, monitors, and consistently improves its design processes, documenting them in its quality management system. These processes align with the ISO 9001:2015 standard to ensure the highest standard in the industry.

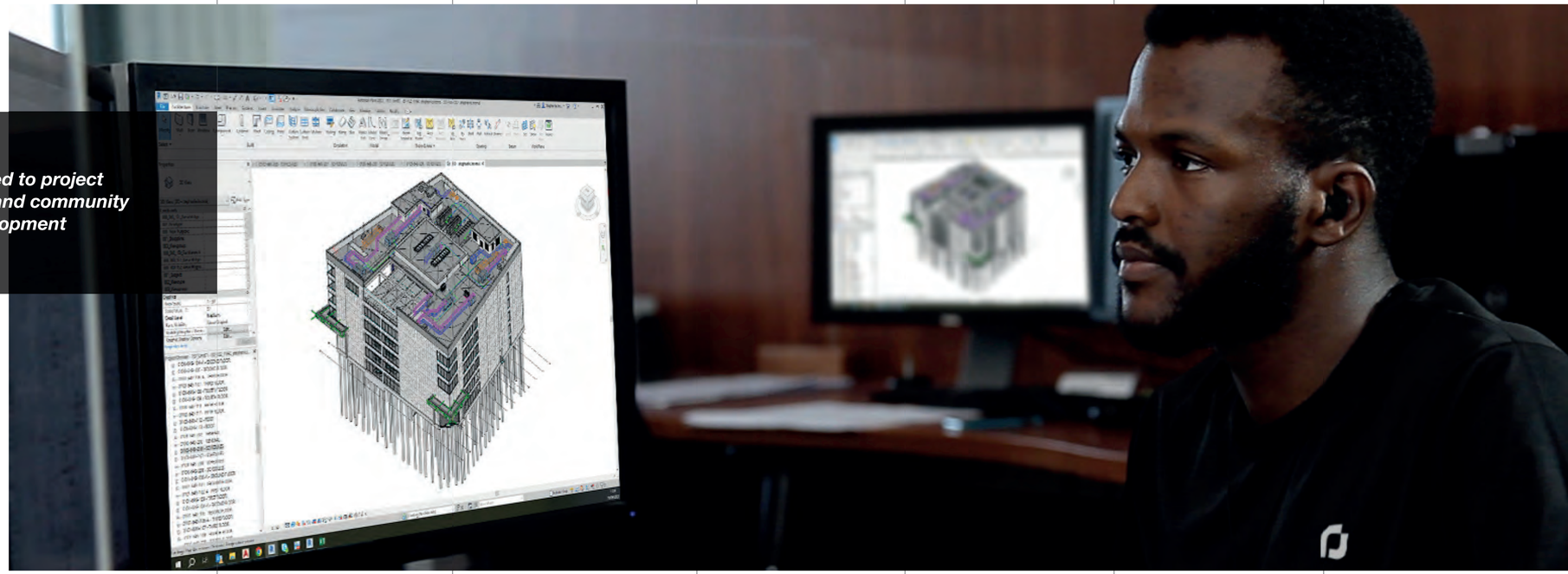
Invested

Committed to project goals, staff and community development

PrimeTech prioritizes its staff, community, and project goals. Its strength lies in its motivated and highly skilled workforce, comprising both young graduates and experienced professionals, who possess extensive expertise in their respective fields.

The majority of **Prime**Tech's engineers and architects have attained membership of renowned Nigerian professional bodies, such as the Council for the Regulation of Engineering in Nigeria, the Nigeria Society of Engineers, the Architects Registration Council of Nigeria, and the Nigerian Institute of Architects.

PrimeTech benefits from access to abundant resources within Nigeria and this enhances the company's capability to provide comprehensive client services from start to finish.



Employee Driven

Quality delivery cycle beginning and thriving upon employee-related policies



PrimeTech values its employees and relies on their input. Its quality delivery process starts with employee-focused policies, which include competitive pay, a positive and conducive work environment, opportunities for career advancement, and a sense of respect, connection, trust and belonging.

PrimeTech promotes collaboration, creativity, and continuous learning, empowering its employees to innovate and excel in all projects. The company encourages pushing boundaries and exploring what is achievable.

Respect

A stimulation of respect and an appreciation of its role in productivity, collaboration, fairness and employee satisfaction, which extends to clients and partners



PrimeTech understands the mutual nature of respect and its manifestation of dignity amongst people, through unconditional regard for their personal qualities or character type. It appreciates how respect within the organisation transcends beyond it to the sphere of respect to clients and partners.

The company also understands the role of respect in productivity, collaboration, employee satisfaction and fairness, demonstrating it through the creation of a work environment where every group member is valuable to the task at hand, and professional achievements, talents and exceptional performances are highlighted and rewarded.

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.

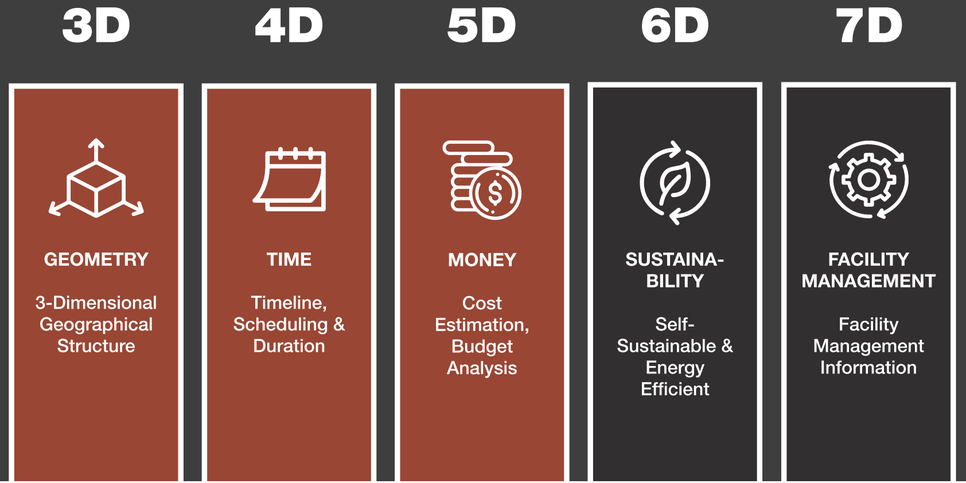
The company adopts a one-stop shop philosophy, providing a holistic approach to engineering design. **Prime**Tech strategically segments its internal corporate business units, enabling efficient collaboration on different aspects of design and engineering services, both internally and externally. This strategy empowers **Prime**Tech 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



Structural Engineering

PrimeTech's structural engineers conduct research, design, and plan structural components and systems to meet specific design objectives. Their primary focus is to ensure technical feasibility, integrity, and safety of the design requirements, as well as the long-lasting performance of bearing elements and materials. Quality processes are given significant importance at every review stage.

The department comprises a well-balanced team of experienced and young engineers, who offer **Prime**Tech's clients distinctive structural engineering designs and drawings.

To achieve its goals, the department utilises cutting-edge industry software for designing and detailing structural elements. They employ specialized finite element modelling software capable of analysing both simple and complex structural systems.

Furthermore, the department collaborates seamlessly with other department by utilising Autodesk Revit Building Information Modelling (BIM) software. This collaborative approach leads to coordinated designs, resulting in improved efficiency, cost optimisation, and effective construction planning.

Scope of Services

- Design and engineering of diverse concrete, steel and industrial structures
- Deep and shallow foundation engineering designs including bored and driven piles, single pads, rafts and strip footings
- Marine and quay structures, made-of-steel sheet piling, or king piles
- Engineering for civil works such as water treatment structures, sewage treatment structures, retaining walls, culverts, man - holes and pipes
- Design and engineering of vehicular and pedestrian concrete bridges
- Building Information Modelling (BIM) integration in building and bridge design



Architecture

PrimeTech's Architecture Department combines the expertise of its experienced team member with the innovative ideas of its young architects. They offer customised architectural design services with a strong focus on technical proficiency.

Currently consisting of 18 dedicated architects, the department is poised for growth. It has an impressive project portfolio encompassing commercial, institutional, industrial and residential buildings. Throughout the design process, the department prioritize clients' requirements and ensure their satisfaction with both the outcome and the overall experience.

The department's architecture prioritize technical feasibility, integrity, and safety. They also emphasise aesthetics and the functional performance of spaces, building elements, and materials. To achieve this, they utilise cutting-edge industry software like FormIt and Sketchup, which enable them to analyse, design, detail, and visualise structures ranging from simple to complex.

PrimeTech's architects are highly skilled in Autodesk Revit Building Information Modeling (BIM) software, which facilitates effective collaboration, coordinated designs, increase efficiency, cost optimisation and efficient construction planning.

Overall, the department aims to be a leading provider of architectural services in Nigeria.

Scope of Services

- Design for all project phases (conceptual, tender and construction)
- Execution of sustainability and energy efficiency in design
- FEED and DED design services for the Oil and Gas industry
- 3D visualization and virtual reality integration
- BIM integration in designs (based on the Autodesk AEC collection)
- Design project coordination
- Procurement planning and requisitioning



Mechanical, Electrical and Pipe Services

PrimeTech's Mechanical, Electrical and Pipe Service Department specializes in engineering design, optimisation, commissioning, and related services for various building systems. These include heating, ventilation, and air-conditioning (HVAC), electrical, plumbing, and fire protection. They cater to industrial, commercial, and residential buildings, as well as data and healthcare centres. The department also provide consultancy services for Mechanical, Electrical and Pipe service installation, design and management.

To ensure efficient collaboration and high-quality project delivery, the department utilises BIM (Building Information Modeling) technology. This enables effective communication and coordination with other departments in the organisation. By leveraging BIM, they achieve accurate designs and promptly respond to project requirements.

Scope of Services

- Air-conditioning and ventilation systems
- CCTV and multimedia systems
- Lighting systems and control
- Access control and handicap call system
- Earthing and lightning protection systems
- Fire detection, suppression and smoke control systems
- Solar energy systems
- Power distribution systems
- Sanitary systems
- Water supply and distribution systems
- Bill of engineering measurement and evaluation
- Supervision and commissioning of installation works



Infrastructural Engineering

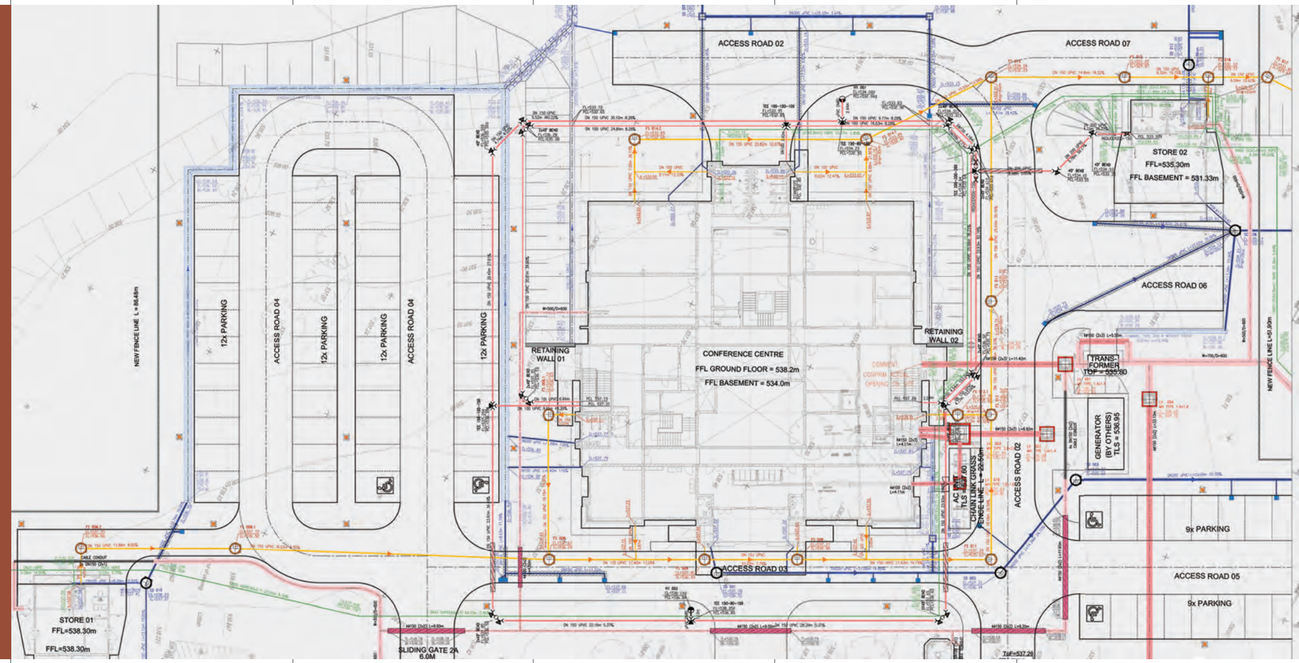
PrimeTech's Infrastructure Department is well equipped to provide sustainable infrastructure solutions throughout Nigeria. They specialize in integrated city, district, plot, and estate layout. They also design roads, highways, bridges, and utility services such as electrical cable routing, water supply systems, sewage systems, storm water management and landscaping.

The department's approach emphasises quality and sustainability, offering comprehensive and environmentally friendly solutions. They are capable of developing masterplans for plots and districts, conducting environmental planning, regional development, and land use planning. Their team consists of highly skilled professionals with extensive knowledge and expertise in the design and construction industry.

Utilising up-to-date software, the department's engineers consistently deliver flawless designs and meet tight deadlines. They work closely with other **Prime**Tech departments and partners, seamlessly integrating into the Building Information Modelling system. From the initial concept to the final implementation, the department's designs are not only functional and cost-effective but also maintain aesthetic appeal.

Scope of Services

- Development of masterplans for estates, cities and districts
- Planning and development of plots and estates
- Geometric engineering designs of roads, flyovers, and bridges; including access and trunk roads
- Traffic engineering for all categories of roads in both the rural and urban areas
- Drainage studies and hydraulic engineering of stormwater systems, including culverts, open channels, piped systems, swales, etcetera
- Engineering for water supply system and wastewater management system



Work Preparation and Cost Estimation

PrimeTech's Work Preparation and Cost Estimation Department, established in May 2022, is the company's newest department. It serves as a support unit, offering technical assistance to other departments throughout the entire project development process, from tender to execution. The department exemplifies **Prime**Tech's comprehensive approach to satisfying clients by providing carefully planned design and engineering solutions. Meticulously designed processes back these solutions in project planning and management.

The Work Preparation and Cost Estimation Department plays a vital role in enhancing **Prime**Tech's management process by employing 5D BIM collaboration. This department's structured and tested approach ensures consistent, effective and seamless project delivery by accurately modelling project time and cost aspects.

With its advanced training and expertise, the department strengthens **Prime**Tech's capabilities and enables the exploration of new opportunities. This expansion enables the company to gain a competitive edge and seize significant business prospects.

Scope of Services

- Project acquisition and concept planning
- Project cost estimation, controlling and performance reporting
- Tender documentation (preparation and submission)
- Time scheduling (risk and opportunity analysis)
- Value engineering / optimisation of special construction methods
- Project execution planning (formwork, scaffold, manpower, equipment, material, etc.)
- Project management consulting using Building Information Modelling (BIM 4D and 5D)



Project **Portfolio**

Prime*Tech’s business trajectory is pivoted on excellent performances that stretched over a vast and prolific project portfolio of brilliant feats, all consistently reflecting its corporate culture of precision, innovation, quality and partnership.*

Commercial Building, Port Harcourt

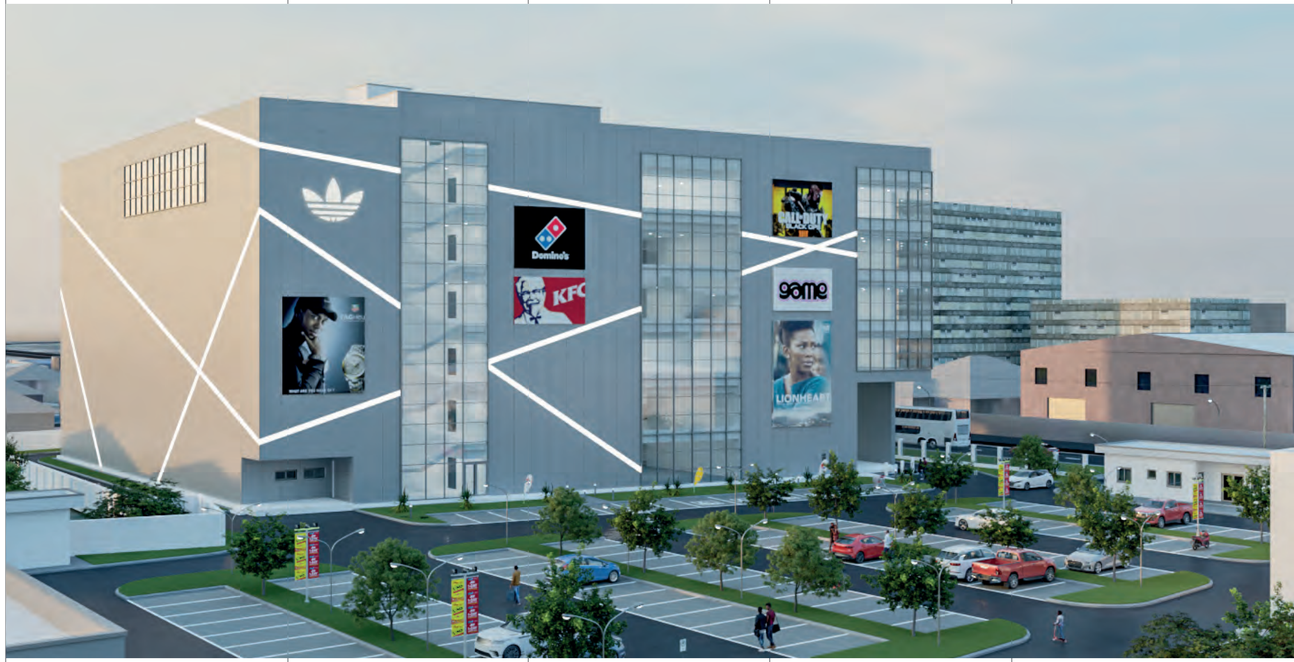




Project Description:

This events plaza is a versatile and modern venue designed by **Prime**Tech to accommodate a wide range of events. It comprises a main event hall, breakout rooms, exhibition spaces, and support facilities. The venue's flexible layout allows for scalability, catering to both large and intimate gatherings. Attendee comfort is prioritized, with convenient amenities and services provided.

The plaza aims to be a premier destination for events, contributing to the cultural and economic growth of the city. With its state-of-the-art facilities and focus on creating an inviting atmosphere, the Events Plaza is poised to host a diverse array of successful and memorable occasions.



Hotel Development, Maiduguri





Project Description:

This hotel project boasts 75 well-appointed guest rooms and suites, each equipped with modern amenities for a comfortable stay. With a diverse range of dining options, guests can indulge in various cuisines at the on-site restaurant. The hotel features multiple lounges where guests can relax and socialize, along with a stylish bar for entertainment. State-of-the-art meeting and event facilities are available for corporate gatherings and social occasions.

Additionally, the hotel offers wellness and recreational amenities, including a fitness center, spa, and swimming pool. The hotel is committed to providing an exceptional stay, ensuring guests have a memorable experience in the warm and captivating region of Maiduguri, Nigeria.



School Facility, Abuja





Project Description:

The Gymnasium and Pool Remodelling project at an International School in Abuja focuses on enhancing the existing pool facilities and expanding the recreational area to accommodate an international standard gymnasium. The design aimed to create a modern, safe, and versatile environment to accommodate a wide range of sporting and learning facilities.

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. Provisions for sports equipment, storage, and spectator amenities were thoughtfully included, ensuring an exceptional experience for students and staff in their pursuit of a dynamic and engaging learning environment.



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 **Prime**Tech'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.



Mixed-Use Building, Warri





Project Description:

This project entails the construction of a multi-purpose development. It features a hotel, office spaces, and residential apartments. The hotel offers comfortable accommodation, amenities, and exceptional hospitality services. Modern office spaces cater to various businesses, while residential apartments above provide convenient living options.

A terrace connects the hotel and office building on the upper floor, fostering interaction. The project aims to promote economic growth, attract tourists, and enhance the local real estate market. Sustainable design practices, community engagement, and social responsibility are prioritized. With this integrated development, the project seeks to create a dynamic space that meets the diverse needs of individuals, businesses, and travellers while contributing to the city's advancement.



Golf Clubhouse, Bonny





Project Description:

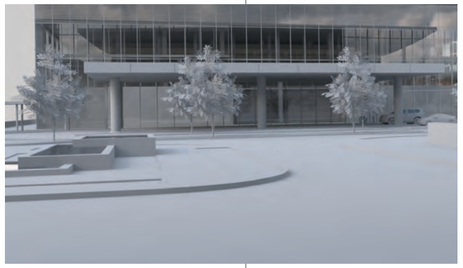
Designed as a single-floor structure, the proposed golf clubhouse places a strong emphasis on passive design strategies to enhance sustainability and energy efficiency. The structure is carefully oriented to optimize solar benefits and reduce direct sunlight penetration.

The incorporation of shading elements and vegetative cooling techniques further reduces solar heat gain. Additionally, the roof slope is optimized to accommodate solar panels for alternative power generation. The clubhouse includes various spaces: an indoor restaurant, gathering area, golf shop, and other supporting facilities. By providing a comfortable environment and minimizing energy consumption and environmental impact, the clubhouse strives to fulfil its purpose while embracing sustainable design principles.



Hospitality Project, Abeokuta





Project Description:

Designed into a natural landscape of trees, slopes, and a stream, this site will create a visible landmark and a prominent address, which should attract and activate its surrounding in the fringes of urban Abeokuta. The project consists of two major structures, an event centre and a high-rise hotel complex, both having a corresponding space in-between to allow for free view and flow of the landscape.

Conceived with sustainability in mind, a uniform envelop made of perforated aluminium panels and formal elements like the horizontal and swing roof structures follows the idea to harmonize the composition.

The site layout and landscape were planned to minimise the heat island effect - the two entrances opening to each other, and like a shop front, allowing views to inside and outside of the building with the ground between the 'agorae' becoming a part of this exciting atmosphere.

The high performance-building envelope and its orientation maximise daylighting to minimise energy consumption of HVAC systems. Along with high-performance lighting systems, the material selections were informed based on local and import materials with zero VOC materials.



Office Building I, 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 II, Lagos





Project Description:

This tower, proposed as an office building, offers flexible and efficient workspaces designed to prioritize the well-being of its occupants. With well-lit and ventilated areas, the building ensures a comfortable environment for users. Standing above 50 meters tall, it features a uniform facade that gives it a unique identity visible from the surrounding streets.

The extensive use of high-performance glazing not only enhances the aesthetic appeal but also contributes to energy efficiency. Additionally, the tower includes amenities such as a multi-story parking facility, offices, a canteen, and a penthouse. The project's focus is on creating adaptable workspaces and prioritizing the occupants' well-being. This makes it the ideal place for productivity and comfort.



Office Building III, Lagos





Project Description:

This is a stunning structure with 7 suspended floors, which contains offices, a parking garage in the basement, a restaurant and bar, work areas, and a multipurpose room - a distinctive landmark in the area. Its cubic structure is softened by textured façade accents and vibrant stripes. The ground floor and restaurant level façade features of the skyscraper are completely glazed, fostering an interaction between the inside and outside.

The structure is shielded from low-angle sunlight by high-performance glass and vertical shading components on the north, south, and west sides. The tower offers a dynamic environment that maximises land usage and improves the aesthetic attractiveness of Lagos state by fusing architectural beauty, usability, and sustainability.



Office Building IV, Lagos





Project Description:

This is a private 9-floor office building that offers breathtaking 360-degree views of both Victoria Island (VI) and Eko Atlantic. The tower caters to a variety of essential services, including flexible and contemporary office spaces, a vibrant restaurant, a well-equipped gym, and more. With a focus on maximizing lettable space, the tower prioritizes generous office areas over circulation areas, ensuring ample usable space for businesses.

The building implements robust fire-fighting strategies, incorporating state-of-the-art fire suppression systems, well-planned fire exits, and stringent safety protocols to prioritize occupant safety and well-being.

To minimise its environmental impact, the tower integrates sustainable design elements, such as energy-efficient technologies and the potential inclusion of green spaces. Situated in a prime location, the tower offers unparalleled panoramic views, creating a stimulating and inspiring environment for professionals and businesses.



Chancellery, Abuja





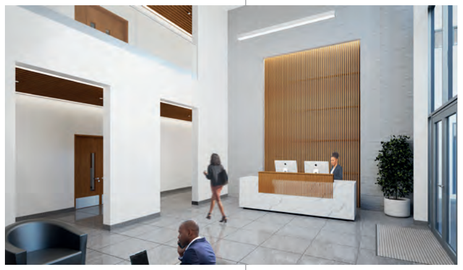
Project Description:

This chancellery building in Abuja is designed with a focus on security and public accessibility. It features bulletproof walls and windows for passive security, along with active security measures. The building's orientation maximises natural light in internal spaces. Existing elements like trees are preserved, and extensive planting, including an outdoor garden, is added to enhance staff comfort and maintain habitats, paying tribute to the host's gardening tradition.

The chancellery incorporates secure zones in the mid and rear areas, while public and semi-public spaces are situated towards the front. Overall, the building aims to provide a secure, well-lit, and eco-friendly environment that balances security needs with public accessibility and staff well-being.



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.



Consulate Building, Bonny





Project Description:

The building design references the old Bonny Consulate Building, which was the seat of British colonial administration in 1897. The new building now houses Bonny FM Radio Station, the office of the King of Bonny, a library, museum, café, movie hall, seminar/ exhibition hall, souvenir shop and ancillary offices.

PrimeTech's scope of services include, concept design proposals, preliminary design, tender design, detailed (construction) design, and development of Bills of Quantity for the works. Its Structural team designed the building as a flat slab structure on slab raft, while the Mechanical, Electrical and Pipe Services team covered the lighting, earthing and lightning protection, multimedia, HVAC, fire detection and suppression, as well as sanitary services.



Private Residence I, Abuja





Project Description:

This project involves the design of a residential house in the scenic area of Maitama, Abuja. Built on a sloping hillside, the main goal is to create a cosy and comfortable home for a family of six, while taking full advantage of the beautiful cityscape views. The contemporary design seamlessly blends with the natural surroundings and features large windows and open spaces to maximise the breath-taking vistas.

The property includes a pool and a guest chalet connected to the main building, providing additional accommodation for visitors. Ancillary facilities such as a gym, private cinema, and landscaped outdoor spaces are also incorporated. With two access points, the design prioritizes privacy and accessibility. Overall, this project offers a harmonious fusion of contemporary design, comfort, and breath-taking views.



Private Residence II, Abuja





Project Description:

This 7-bedroom residential development is a luxurious property designed for comfort and functionality. The main building, with two suspended floors, takes advantage of the site's slope, creating a partial basement floor. The bedrooms, adorned with locally sourced natural stone and ceramic tiles, offer privacy and spaciousness.

Notable features include a private sitting area, an office/study room, and a stone garden visible from the terraces on all the floors. Additional amenities such as a guest house, staff quarters, a gazebo/sit-out area, and a swimming pool with landscaped gardens enhance the living experience. This development seamlessly combines aesthetics with modern comforts, providing a serene environment for relaxation. This design offers a luxurious living experience in a well-designed and harmonious setting.



Industrial Facility, Calabar





Project Description:

The scope includes detailed design of a multi-modal facility in Calabar, Nigeria. The facility serves multiple business units of the company.

PrimeTech's team of architects developed the conceptual, preliminary, detailed and final design for the facility, and this constists of the training and administration complex, the welfare building, the energy centre, and associated facilities.

Also, **Prime**Tech's Structural Department designed all ancillary structures for the project including water treatment building, power house, diesel tanks and compressed gasses buildings.



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 **Prime**Tech'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, **Prime**Tech'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.



Flyovers, Port Harcourt





Project Description:

These flyovers in Port Harcourt serve as an integral part of the general traffic system, reducing traffic congestion at several key locations in the city. The importance of these flyovers is to raise the standard of living of the people and boost the economic growth of the state.

Along with other works, **Prime**Tech designed and prepared construction drawings for 12 flyovers with concrete wall ramps. The flyovers comprise of both single and dual carriageways varying between 13 - 16 spans.

Supported on 22.5m long precast I-beams per span; All flyovers were designed to be supported by bored piles due to Port Harcourt's underlying soil conditions.



Road Project, Abuja-Kaduna-Zaria-Kano





Project Description:

This project is a rehabilitation and reconstruction of the road through Abuja, Kaduna, Zaria, and Kano. The dual carriageway has a length of about 380km. The work includes four lanes - two lanes (2 x 3.65m) each way, an outer shoulder of 2.75m and improvement of the existing cross section, median and side embankments.

PrimeTech's Infrastructure and Structural teams are currently providing major design supports for the pedestrian bridges, drainages, culvert extension as well as culvert drainage management for the project.



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 **Prime**Tech 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.



Memberships & Certifications



PrimeTech is an active member of all relevant design and engineering professional bodies of high standing in Nigeria and has all the operating certificates to work in Nigeria and even beyond.

The company's Quality Management System conforms to the requirements set by the International Organisation for Standardisation (ISO 9001:2015).

*"At **Prime**Tech we continue to push the envelope of creativity, raising the bar, and making a bold statement that Nigerian design and engineering can perform at a global standard"*

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