



COMPANY PROFILE



DESIGNING DREAMS
BUILDING REALTIES



ABOUT QWA

After deep study for construction sector, we decided to establish QWA Engineering Consultancy firm in the kingdom of Saudi Arabia. Established in 2023 , as a multidisciplinary consulting engineering office. catering to discerning our partners both in the public and private sectors and providing services in every corner of the Kingdom.

At QWA Engineering we are an expert specialize in providing tailored solutions to all projects , helping our partners navigate challenges and seize opportunities in today's dynamic marketplace.

QWA provide services in following business area:

Design and Planning - Project consultation - Project supervision
Project management - Value Engineering



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OUR MISSION

To support Architectural and economical growth witnessed by the region through providing leading, complete and compatible engineering solutions and services in the field.

- Architectural Engineering and interior design
- Geotechnical Engineering
- Structural Engineering
- Water Treatment & Waste treatment plant
- Air conditioning and District Cooling Plants Engineering
- Infrastructure Management
- Electrical Substations & Power Plants
- Data Center Engineering
- Fuel stations design
- Fire and Life Safety consultation



OUR VISSION

To be creative and leading deign office and engineering Consultancy in KSA for Engineering ,con-
sultancy and Project management services in order to support the construction revolution and
kingdom vision 2030 at all aspects.



QUALITY

QWA is securing high Quality engineering to serve and deliver better value with the principles and practice of product and service Quality assurance and control.



TEAM WORK

Working together continuously to obtain our partners satisfaction with value engineering , efficiency improvement and cost optimization for our projects.



ANALYSIS

Hourly Analysis of market needs , latest technologies and standards will lead to successful projects , community growth and achieve sustainability initiatives.



OUR CORE VALUES

At our consulting office, our core values serve as the compass guiding every interaction, decision, and endeavor we undertake. Integrity forms the cornerstone of our approach, as we uphold the highest ethical standards in all our dealings. We are committed to excellence, continually striving to deliver exceptional results that exceed our clients expectations. Collaboration fuels our success, as we embrace diverse perspectives and work seamlessly as a team to solve complex challenges. Innovation is ingrained in our DNA, driving us to constantly explore new ideas and approaches to drive positive change for our clients. With a relentless focus on these core values, we stand ready to partner with you on your journey to success.



Excellence and Professionalism: applying the highest of the standards , art engineering services and technical project management in the design and composition of ideas that meet the requirements of our customers and strive to deal with the challenges which we strive our expertise to achieve the esteemed requirements of our customers through innovation and creativity.

01



Dealing and moral credibility: the pop of respect and transparency and commitment to the highest engineering design and consulting services that meet the requirements of the times by using the best practices, standards and best reached engineering services by specialists with experience ancient engineers

02



Sensory commitment to social responsibility: toward the esteemed customers including contracted it in every sense of the word.

03



Innovation: Embracing new technologies, methodologies, and approaches to problem-solving to deliver cutting-edge solutions and stay ahead in a rapidly evolving industry.

04

OUR CORE VALUES



Integrity: Upholding the highest ethical standards in all interactions, maintaining transparency, honesty, and trustworthiness with clients, partners, and stakeholders.

05



Excellence: Striving for excellence in every aspect of service delivery, from project execution to client satisfaction, by consistently delivering high-quality results and exceeding expectations.

06



Sustainability: Integrating sustainable practices into engineering solutions, prioritizing environmental stewardship, resource efficiency, and long-term viability in alignment with global sustainability goals.

07



Collaboration: Fostering a culture of teamwork and collaboration, both internally and externally, to leverage diverse perspectives, expertise, and resources for optimal project outcomes.

08

OUR SERVICES

QWA's specific strength is the successful completion of challenging and complex projects that require comprehensive management capability and interdisciplinary engineering expertise. QWA Engineering Consultancy assists ambitious clients with full-scope services for major commercial, industrial and infrastructure projects in the following main business areas:

1. Engineering services
2. Consultancy Services



1-Engineering SERVICES

QWA has experience to provide all the engineering and design services required for the implementation of projects in its business areas. Every project is unique and has requirements specific to the client, business, and country. QWA’s regional presence and broad experience makes a detailed understanding of the services to be provided possible.

Successful design and planning comes through a well-prepared engineering and design process. Coordination of interdisciplinary interfaces is key, and QWA uses interdisciplinary reviews to ensure top-quality engineering and design.

QWA also provides further services if needed such as acquiring all the necessary permits for a project.

QWA provides the following services:

1. BUILDINGS

QWA designs and manages complex and challenging projects, from private and public buildings to industrial facilities. The broad spectrum of building projects which QWA delivers allows us to serve every client and their needs, whilst driving the development of new technologies.

Creativity and experience guarantee the successful implementation of top-quality projects that meet all technical, functional, sustainable, environmental and aesthetic requirements. The efficient and economical implementation of demanding building projects is furthermore only possible with the help of QWA’s experienced multidisciplinary team.

When designing buildings – be that public or industrial buildings – the focus is always on creating modern objects that are consistent in form and functionality, and which meet client-specific requirements.

Mixed use developments are these days’ part and parcel of the ever-growing urban landscape. QWA Engineering has ability to provide services to these present-day real estate needs. QWA Engineering’s professional team is capable enough to take up mixed used development of any size, nature or complexity even the high-rise buildings.

1-Engineering SERVICES

2. URBAN & MASTER PLANNING

Whether on a city or district level, sustainable infrastructure is essential for greenfield and urban transformation projects to create livable and attractive urban environments. From water and energy supply systems to mobility networks, infrastructure systems constitute the cornerstones of urban spaces, providing environments around which many people's lives are centered.

The development of urban infrastructure is among QWA's key competencies. It is not only this experience that makes QWA a perfect partner, but also QWA's tireless efforts to utilize the potential offered by digitalization, transform design approaches and create extensive opportunities.

The focus of QWA's tools and competencies, pooled together under the term "urban design technologies", is on developing tailor-made digital solutions that foster state-of-the-art design approaches and provide measurable benefits for QWA's clients. Through the provision of such digital solutions, QWA is able to implement the highest standards of sustainability, resilience and smart technology in its projects.

The vast experience of QWA's experts combined with in-house design tools enables QWA to provide the best digital solutions for urban development projects. The well-founded specialist knowledge of an experienced planner is decisive when it comes to using digital tools in a sensible, efficient and targeted way.

QWA Engineering has the team of professionals with the right tools and skills to demonstrate and execute the master planning of projects with extreme complexity or magnitude.



1-Engineering
SERVICES

3. HEATING AND COOLING

In response to global trends and market expectations, QWA provides solutions in line with Generation District Heating and Cooling concept of integrating smart thermal grids (which utilize centralized energy plants, renewables and low-temperature heat sources) into systems that optimize operational costs and minimize heat losses, with the help of heat and cold storage systems.

Based on the profound knowledge of heat generating plants such as Combined Heat and Power (CHPs) plants, Waste-to-Energy (WtE) plants and biomass-based installations, QWA offers comprehensive services focused on optimizing the overall efficiency of grids and radically reducing the emission of greenhouse gases and air, water and soil pollutants. These services comprise the design of entire district heating and cooling networks, the analysis and optimization of existing networks, and comprehensive services related to all components or subsystems of such grids.

QWA provides all the services required for the successful implementation of heating & cooling projects



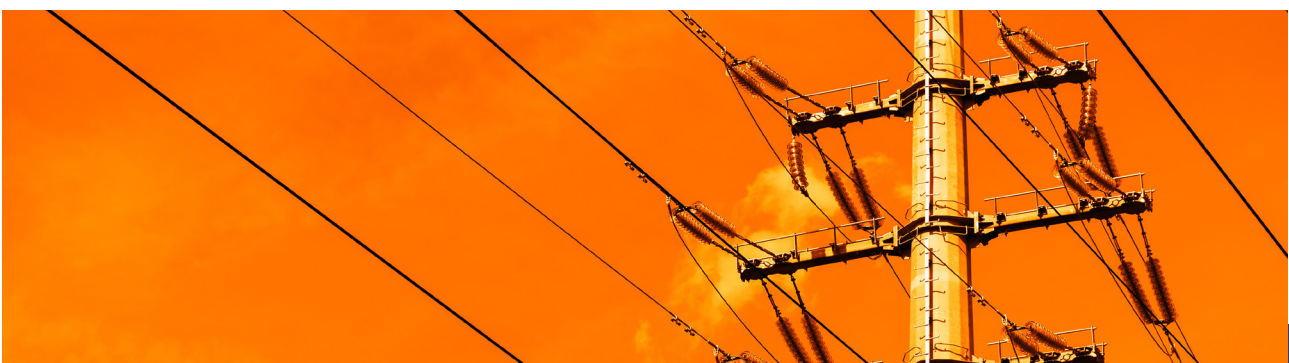
1-Engineering SERVICES

4. POWER TRANSMISSION & DISTRIBUTION

Sustainable utilization of this resource is based on two premises: efficient, environmentally friendly energy generation in modern power plants and safe, low-loss transmission of electricity and heat from power plants to consumers using highly efficient transport and distribution systems.

QWA offers optimized, design and solution for energy transmission services, from the transmission of electrical power via the energy suppliers' overhead transmission lines to industrial supply systems that place great demands on the system layout and configuration because of special load characteristics.

QWA is a pioneer in implementing innovative power transmission systems based on direct current transmission with HVDC cables or alternating current transmission with gas insulated transmission lines (GIT). These systems connect high-capacity energy generation facilities to the grid over long distances.



**1-Engineering
SERVICES**

5. WATER TREATMENT PLANTS

Because of growing water consumption, dwindling water resources and increasing water pollution, using raw water of poor-quality undergoing purification treatment is often the only option to quench the world’s thirst.

Appropriate water treatment systems have to be customized depending on raw water quality, intended use of water, and operational constraints. QWA’s expertise covers the complete technology range, from well-established affordable solutions that make purified water accessible to a rapidly growing population, to innovative, high-tech water treatment processes such as reverse osmosis systems.

Whether it is initial assessments of potable and production water demands, feasibility studies for comparison of suitable water treatment options, design development for recommended solutions, and/or support during procurement, construction and commissioning of water treatment plants – QWA’s water treatment plant experts are passionate about their contribution to sustaining human life.



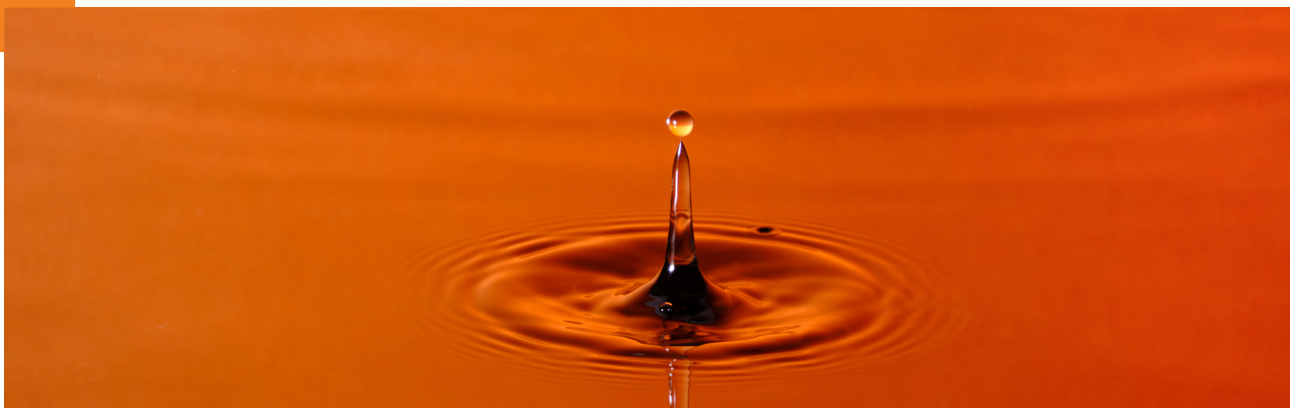
1-Engineering SERVICES

6. WASTEWATER TREATMENT PLANT DESIGN

Wastewater collection and treatment are some of today's important environmental and social issues. It is only if potential environmental damage caused by the discharge of water pollutants is minimized or even prevented that we stand a chance of protecting the environment and its vital natural water resources. It becomes increasingly important to understand wastewater as a precious resource, to reuse treated effluent for landscaping, agriculture, and industry, to recover carbon, nutrients, etc. and to produce energy from residual solid matter.

Developing tailored treatment solutions for different economic, environmental and operational boundary conditions is QWA's top priority.

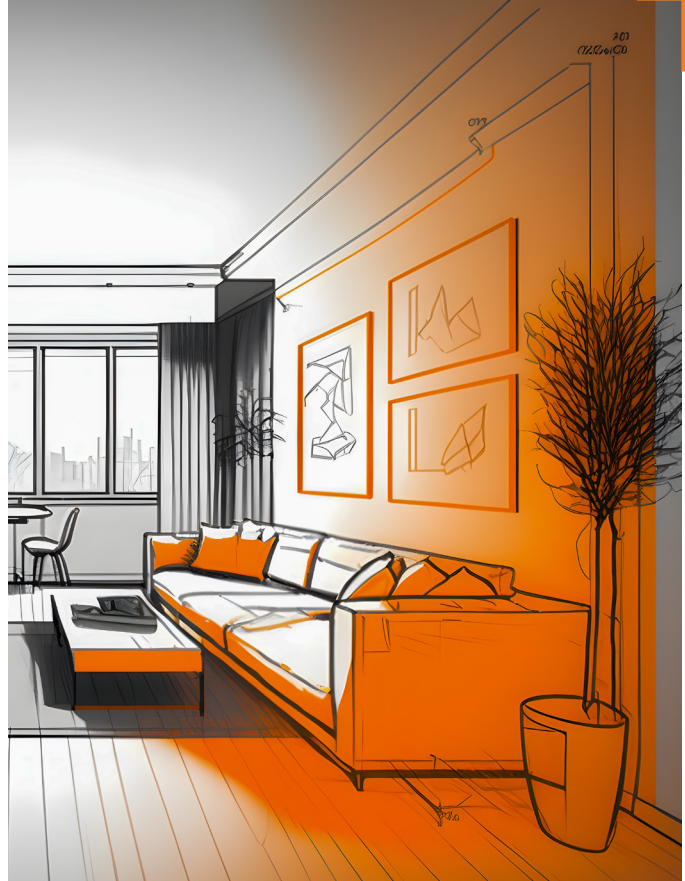
As an engineering company in designing complex wastewater infrastructure projects, QWA has the professional competence to partner with its clients to support them in every step towards achieving their ambitions goals.



1-Engineering SERVICES

7. INTERIOR DESIGN

The ultimate interaction between architecture and mankind is through interior design. The outcome of interior design is tangible for the end user or the mankind. Studies have shown that Interior Design has put impacts over the individuals. As a branch of architecture, interior design has proven its individuality in the industry. Now it has become a specialized field. QWA Engineering’s interior design department is well verse of providing design solutions that has positively impacted the end users.



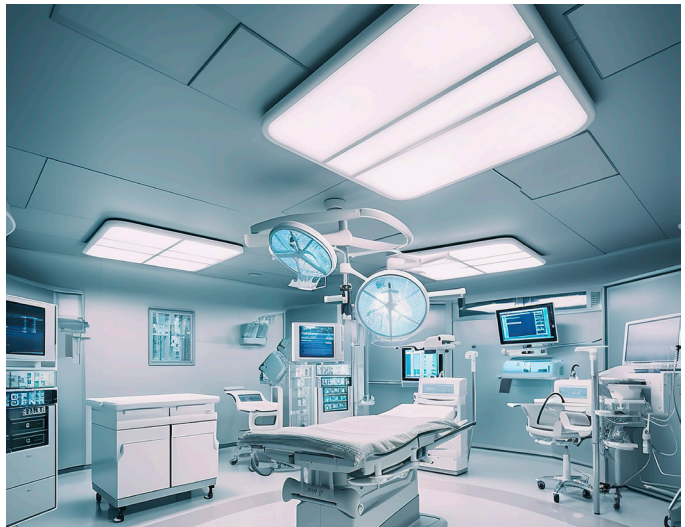
**1-Engineering
SERVICES**

8. HEALTH CARE

QWA Engineering can boast a wide range of hospital projects, from refurbishment and new build design consultancy services, feasibility studies to master planning; QWA Engineering is fast securing crucial projects in the healthcare sector.

Working with the clients from the early stages of a project helps us to examine the whole life performance as well as costs and impacts, enabling a long-term view of sustainability to be taken and highlighting potential cost, environmental or social benefits.

QWA Engineering’s approach to innovation also enables us to improve performance, from initial concepts right through to development of technical solutions, management systems and procurement to project completion, operation and maintenance.



1-Engineering SERVICES

9. BUILDING INFORMATION MODELLING BIM

QWA Engineering uses Building Information Modeling (BIM) throughout the life of a project. Starting early in the design phase, QWA Engineering works with designers, trade Subcontractors, and owners to identify the risk areas on the job and leverage the use of BIM to control that risk. The primary benefit of BIM is to produce a better, safer project outcome. It does this by establishing a common understanding of what has to go into the model when it proceeds from the design team to the construction team. This shared understanding ensures the project vision is consistent among all stakeholders. Other benefits include:

- Lower net costs and risks; recognized by owners, designers, subcontractors and engineers.
- Productivity gains, project controls, and rapid visualization capabilities.
- Improved coordination of MEP systems, preventing clashes among systems.
- Better views of the facility result in better decisions.



2. Consultancy SERVICES

Professional project management is needed to reach project goals regarding time, quality, and cost. QWA team has great experience in the preparation and execution of large-scale, interdisciplinary projects. Drawing on this experience, QWA is competent to perform project management tasks as prime consultant.

The efficiency and quality of project execution is increased significantly by streamlining management responsibilities. If desired by the client, QWA assumes full responsibility for the management of projects.

QWA Engineering Consultancy provides the following services:

CONSTRUCTION MANAGEMENT

Comprehensive Construction Management from the customer's perspective, for the customer's profit

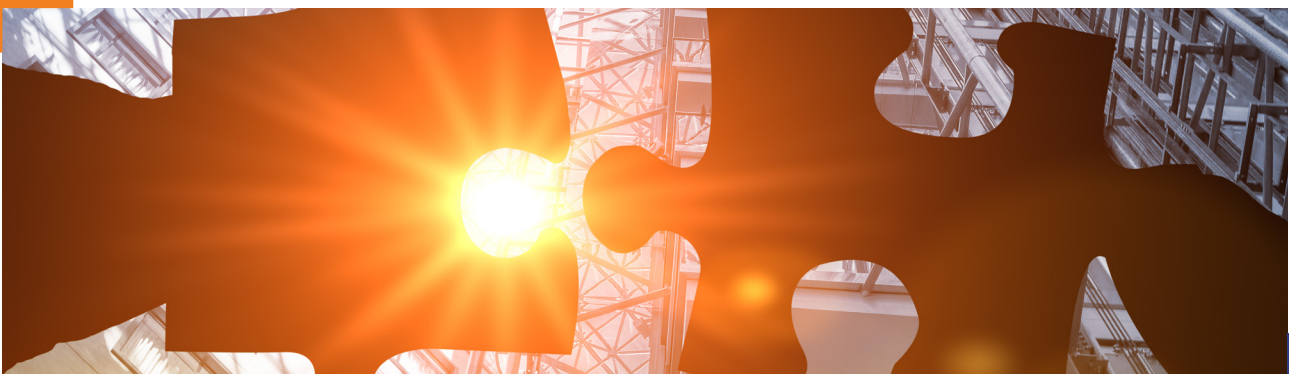
By combining systematic project management methods with cutting-edge technology and construction methods, we are making history with superlative results in all areas, including quality, construction time, cost, safety, and more.

Construction Management (CM) that maximizes value in construction(CM)

is a service that manages the entire project on behalf of the client through every stage of the process: from planning to design, ordering, construction and maintenance. Specialists offer comprehensive management to produce the finest construction within budget and on time.

World Class CM Service

QWA Engineering provides the best in specialized services that not only reduces the client's time commitment, but also helps the client make the best decisions possible. In addition, as a project coordinator or mediator, we can promote a smooth communication flow between all parties and help resolve any disputes.

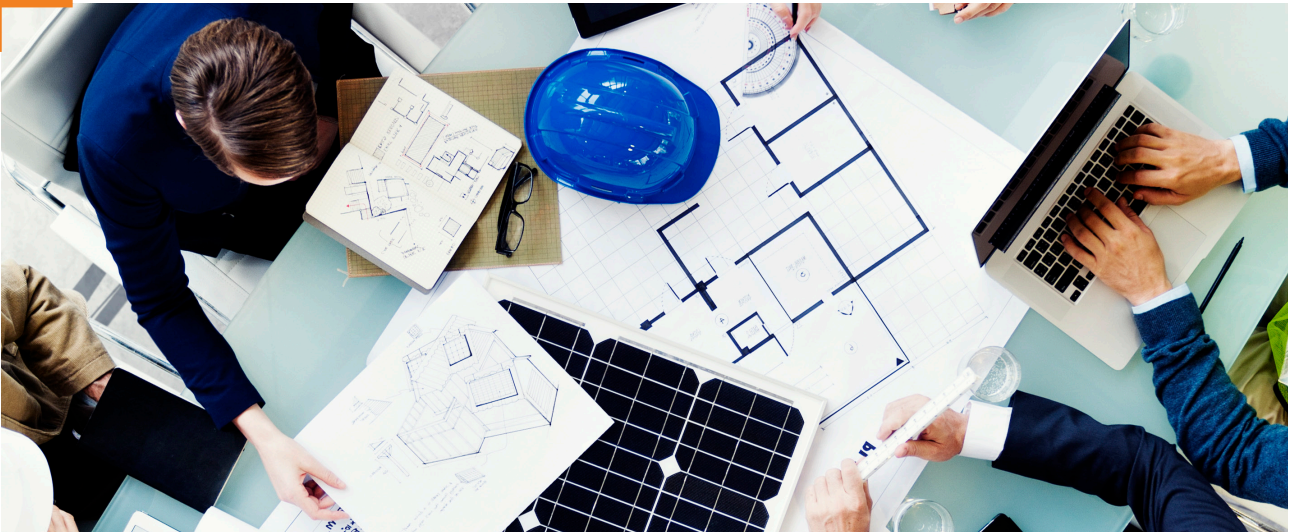


2. Consultancy SERVICES

PROJECT MANAGEMENT

From Project Planning (PM) to financing and sales, PM service from QWA Engineering Consultancy ensures success. PM reflects our determination to be construction's Total Solutions Provider. Experts will manage every phase of your development, maintaining consistency for optimal results and maximum profit.

The best PM service for increased customer value. PM is a vertically integrated service that provides all of the necessary elements at every phase of the project. Following the project planning, authorization review, feasibility review, marketing plan, and financing phases, the best development proposal is presented to the Client, and CM methods ensure a successful construction phase.



2. Consultancy SERVICES

CONSTRUCTION SUPERVISION

QWA Engineering's consultancy services cover Project planning and monitoring, preparation of technical specification and related drawings, schedules and datasheets, Technical evaluation of vendor offers, construction management, site supervision, Inspection services for equipment, Testing and commissioning.

QWA Engineering's services in this sector spreads to design review, and coordination with EPC contractor's civil, electrical, mechanical, protection, communication and firefighting related design submittals including detailed design calculation, structural design and analysis, construction drawings etc.

As part of the project management services, professionally trained manpower for the Power, T&D and Building projects in the following disciplines are being provided:

Electrical Engineering

Control and protection Engineering

Telecom & SCADA Engineering

Architects and Surveyors

Mechanical Engineering

Civil and Structural Engineering

Quantity surveying and cost control



DEPARTMENTS

Our works divided into project management , Engineering and Architectural Design, Interior Design and Decoration, Structural ,Air conditioning , water supply, drainage, fire fighting and fire alarm , HVAC , Electrical ,security and Telecommunications services.

All our services are provided with respect of Saudi building code requirements , international standards, Local authorities and latest technologies applying BIM modelling services by one of our largest partners ,specialized and authorized in BIM technology providing BIM services up to LOD 600.

OUR DEPARTMENTS

PROJECT MANAGEMENT AND SUPERVISION

A project management department defines and maintains the standards of project management for a project . Our team retains the documentation and metrics for executing projects and is tasked with ensuring projects are delivered on time and within budget.

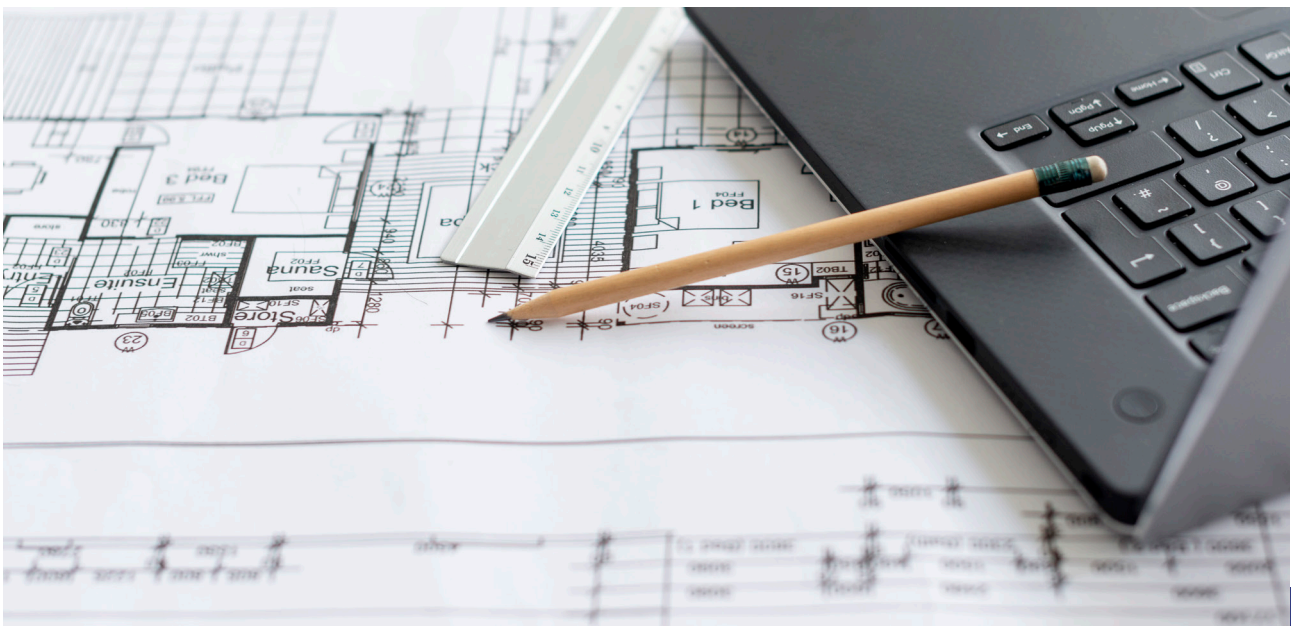
Supervision team spreads to design review, and coordination with EPC contractor’s civil, electrical, mechanical, protection, communication and firefighting related design submittals including detailed design calculation, structural design and analysis, construction drawings etc.



OUR DEPARTMENTS

ARCHITECTURAL DESIGN

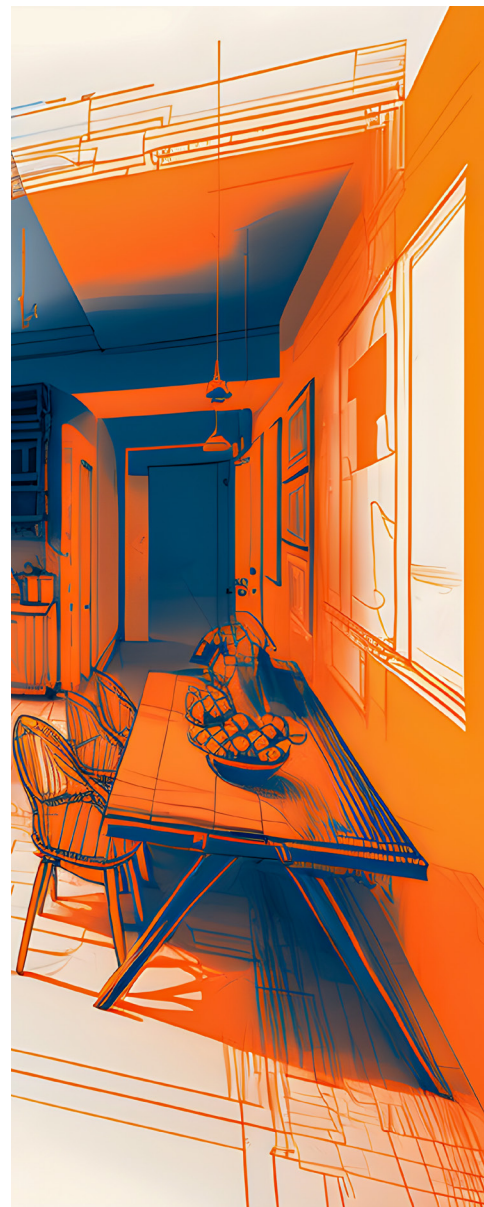
- Concept designs and Final Architectural Works and Design.
- Detailed design and Architectural shop drawings.
- Preparing Elevations, Sections , Flooring, Ceiling and Finishing Layouts.
- Detailed Drawings and Landscape Layouts.
- Finishing Schedules (Interior and Exterior) , Bill of Quantities and Bill of materials
- Shop Drawings , ceiling plans, flooring plans, typical and enlarged details.
- Preparing As-built Drawings
- Coordination Drawings



OUR DEPARTMENTS

INTERIOR DESIGN AND DECORATION

- Interior Design Works
- Ceiling , flooring and Gypsum decoration works
- Walls Decorations Design and templates
- Furniture Layouts Design and details
- Color Coordination
- Bill of Quantities and Bill of materials
- Tendering
- Planning and design of the interior spaces, which aims to harness the physical, spiritual and social needs of the people, which ensures the safety of installations
- Interior Design Created and technical aspects of the planning aspects as it take cares beauties and artistic
- The well-planned interior design group of specialists, including engineers and designers in-house. And risk analysis and fire protection.



OUR
DEPARTMENTS
STRUCTURAL DESIGN

- Structural Design and Studies preparation ,reviews and specify suitable structural system and its effects
- Load and structural analysis
- The preparation and review of structural studies and determine the structural systems and alternatives.
- Work loads and stress calculations for the project
- The preparation and review of shop drawings and structural reinforcement tables and ceilings and columns.
- Examining and strengthening the preparation of concrete buildings and concrete processing scale.
- Lifting concrete works and Soundings soil analysis.
- Prepare the foundations schemes and rules.



OUR DEPARTMENTS

ELECTRICAL ENGINEERING

- Study and Design of All Electrical Systems , Infrastructural Electrical works and Low current Systems
- Preparation of Technical Studies related to all electrical systems in Generation, Transmission ,distribution and consumption
- Lighting works Preparation and studies
- Power and sockets works
- Telecommunication works
- Medium and low voltage network design ,calculation AND ANALYSIS
- STAND BY SYTEMS DESIGN
- Ups DESIGN
- CENTRAL BATTERY SYSTEM DESIGN
- Fire alarm design systems
- Security Systems Design
- Load Scheduling and Calculations preparation
- Smart Home system Design
- Solar Energy systems design



OUR DEPARTMENTS

MECHANICAL ENGINEERING:

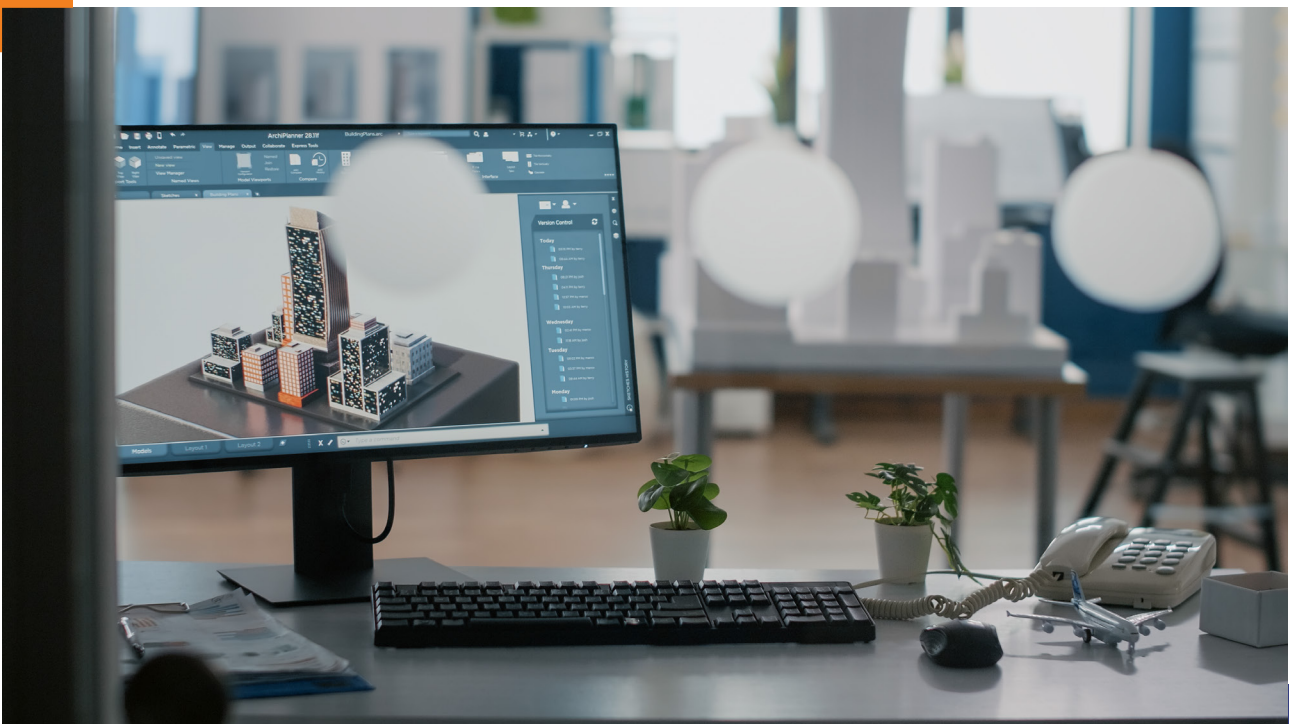
- HVAC Layouts preparation and Cooling and heating systems studies
- Water supply systems , water heating systems and drainage systems
- Fire Fighting system design, studies and works
- Green Areas Irrigation systems design and rainwater network
- Swimming pool , water falls and decorative water features systems design
- Kitchen Preparation studies (for restaurants , hotels , palaces and villas)
- Pumps studies and calculations for domestics and stations
- Consultations about the test and measurement, inspection and quality control and a private consulting maintenance and Fault Diagnosis



OUR DEPARTMENTS

BIM ENGINEERING SERVICES

- QWA is a leading group in building information modeling services which includes BIM technical support , BIM implementation (Design & shop drawings) , BIM co-ordination & BIM software provider , whether you are looking for full BIM services, more information on BIM technology and BIM migration, or you need to implement individual BIM aspects, we can provide a complete range of services to cover all the client needs to maximize the benefits of using BIM technologies .
- Our BIM & cad services also benefit clients, saving on resources and time by providing accurate cad shop drawings , surveys and 3D visualizations. Our values are available by a group of experienced engineers & professionals in the field of BIM technology ,a group of companies provides the most up to dated technologies in the field of BIM . Our BIM projects and clients' spreads among Egypt , Saudi Arabia , U.A.E also we supported and supervised & consulted companies to apply BIM technology on their projects through a guaranteed detailed cycle that maximize the benefit of this software .
- Our BIM TEAM is applying latest technologies for companies which works in the fields of construction , infrastructure , power planet , industry and manufacturing . We have delivered the full spectrum of services from concept development to construction supervision, working on projects ranging from houses of worship to shopping malls, sports facilities to royal palaces.



IN ADDITION TO

Providing all previous services based on latest Codes and standards required in KSA and by last updated Engineering and design programs

Land Survey for all lands and preparation of Survey reports

Completion of all design requirements , drawings, proposals, layouts ,sections , Specifications, calculations, tendering and bill of quantities

Supervision of execution of the project and project management

Tendering stage, offers comparison and contractor selection based on compliance and financial approvals

After design services extends to supervision stage by our qualified engineers on the contractor



Engineering PROGRAMS

SOFTWARE REFERENCE	DESCRIPTION
Archi-Cad	Architectural Design Program
Photo Shop	Presentation Program
ETABS	Structural analysis Software
SAP 2000	Structural analysis Software
ETAP	Electrical Transient Analyzer Program
EDSA	Electrical power system design software
DOC- Win	Electrical installations measures
Ecodial	Design of low tension electrical installations
Calculux	Lighting calculations
Dialux	Lighting calculations
JBL	Sound system calculations
Total Solution	Earth and Lightning Protection Systems
HAP (Hourly analysis programs)	Cooling load estimation
Carrier E20II	Cooling load estimation
Mc-Quay Duct Sizer	Duct work sizing and pipe network sizing
Elite	Design of firefighting systems
Fire CAD	Design of sprinklers
Primavera	Time Schedule and Project Management.
Office (word-excel-power point-access)	Microsoft office programs
Auto- CAD	Computer Aided Design program
REVIT	BIM drafting and modeling tool
Sketch up	Architecture Design Software
Navis works	Clash Detection BIM tool
3D-MAX	Presentation and modeling tool



Get in touch
READY TO ELEVATE YOUR BUSINESS? CONTACT US TODAY TO START THE JOURNEY.



DESINGING DREAMS BUILDING REALTIES

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