



QUANTUM MEP CONSULTANTS

We Design & Build your
Mechanical, Electrical
and Plumbing (MEP) &
HVAC Systems.

We take a closer look!

Company Profile

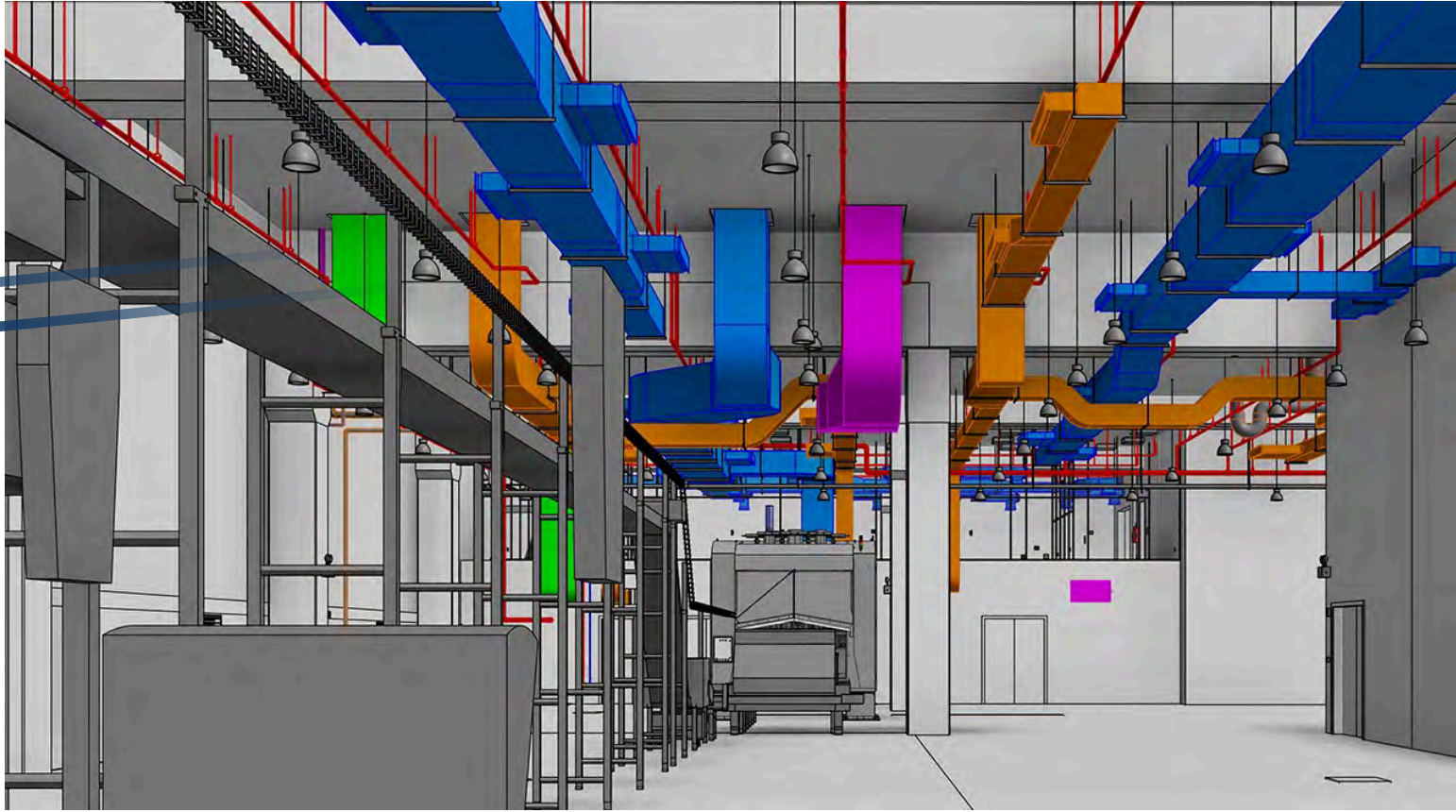
- ☎ +254 701 326 274
- ✉ sagwem65@gmail.com
- ✉ mohammed@quantumep.co.ke
- 🌐 www.quantumep.co.ke
- 📍 The Oval, Westlands, Nairobi, Kenya.



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About Us

We connect expertise in Mechanical, Electrical and Plumbing works, to engineer, design, supervise and install MEP systems that bring buildings to life and create a delightful environment for occupants and efficient with resources, since 2017.

Our vast experience are reflected in every project we've undertaken.

Quantum MEP Consultants work success stems from its dedication to providing clients with engineering solutions tailored to their specific need, driven by Quantum MEP Consultant proven expertise and cost effectiveness.

Quantum MEP Consultant has an in-house technical team offering round-the-clock services to ensure that our clients are satisfied from project inception until its final completion.

Whether it's a commercial or mission-critical facility, we meet the creative and commercial demands of clients. Our comprehensive services include HVAC, Fire and Safety, Electrical, and Plumbing works, Energy audits, Reporting and Certification and Facilities management.

We offer additional expertise with Euro-codes standard, GREEN MARK, EDGE and RwGBO accredited professionals to bring the best solutions to your challenges.



Our Vision

Our purpose is to positively impact lifestyles of the communities we serve through consistent, timely, quality, efficient and value added delivery of engineered, innovative and tailor-made technology solutions that constantly exceed expectations.



Our Mission

Our aspiration is to become a sustainable growing and profitable MEP & Low Current Engineering & Contracting service provider through building effective and efficient operations.

Our Services



MEP Design and Supervision.

We know a detailed and tailored building services MEP (Mechanical, Electrical, plumbing) design is key to a successful construction project.

The QUANTUM design department handles the most complex projects and produces highly sustainable yet cost-effective solutions.

QUANTUM MEP CONSULTANTS understands that building service design is a key component of the construction supply-chain.



MEP Construction

Mechanical

Whether it's your climate control or reliable protection systems.

QUANTUM MEP CONSULTANTS installs these systems with one purpose: To create a delightful and safe environment for the public welfare.

HVAC works

- Ventilation and air filtration systems
- Chilled water systems
- DX / VRV systems

- Package units | Extract fans
- Fresh Air Handling Units Ecology Units and Make up Air Handling Units
- CCU | GI and PI Ducting

Fire and Safety works

- Fire suppression systems
- Fire extinguishers
- Fire hose reels
- Fire hydrant systems
- Automatic sprinkler systems
- Dry and wet riser
- Pumps

Electrical

We know how much you depend on energy. Quantum MEP Consultants low voltage and Emergency power system to ensure power is there when you need it. Our expertise touches electrical and low current systems.

Electrical works

- Grounding
- Main distribution boards (MDB) Secondary main distribution boards (SMDB)
- Final distribution boards (FDB)
- Cabling | Lighting fixtures
- Sockets | Generators

Low current works

- UPS
- Data and communication
- Fire alarm
- Audio Visual
- Lighting Control System
- Access control
- Queue management system
- BMS (building management system)
- Video and Audio intercom system

Plumbing

Every plumbing system we install is equipped with well sized and securely connected systems for the proper distribution and evacuation of water.

Plumbing works

- Sanitary and drainage systems
- Water distribution
- Water treatment
- Variable and fixed speed pumping systems
- Solar Heaters
- Kitchen and laundry plumbing
- Irrigation systems and controls
- Sand traps and grease traps.



Facilities Management.

You need a partner who will support your Facilities and Estates Teams, providing you with a tailored solution that will give you peace of mind with cost-effective maintenance.

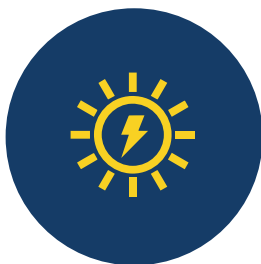
We offer a full range of services, integrated in a flat management structure that is highly responsive to our client requirements.



Green Building consultancy

We are specialized in supporting projects in achieving certification according to not only Euro-Code standard, but also GREEN MARK, EDGE, standards for sustainable buildings and sees these standards as a basis for "sustainable design".

We provide an extensive, green, economic and holistic perspective beyond the standardization framework.



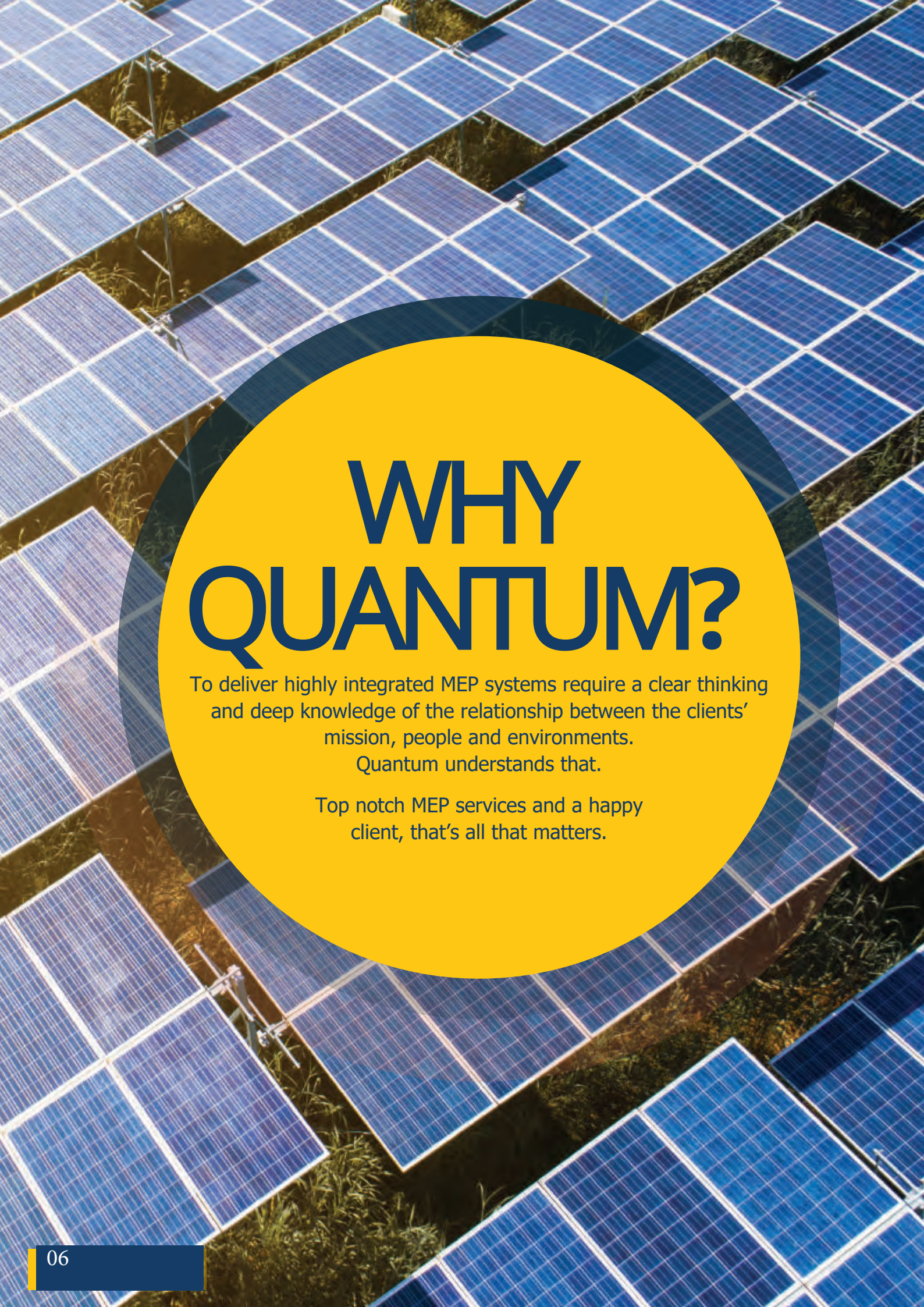
Energy audit, Reporting and certification

Whether it's an inspection survey or analysis of energy flows for energy conservation in a building; process or system to reduce the amount of energy input into the system without negatively affecting the output.

We help you streamline your property's energy consumption allowing you to be more energy-efficient and eco-friendly,

we are covering building occupancy, operations, maintenance, and code compliance.

We aim to provide our clients with detailed survey results, risk mitigation analysis, implementation plans, and a final investment-grade analysis



WHY QUANTUM?

To deliver highly integrated MEP systems require a clear thinking and deep knowledge of the relationship between the clients' mission, people and environments.

Quantum understands that.

Top notch MEP services and a happy client, that's all that matters.

Our Projects

01

Tsavo Delight.

Project Arch: Arch.
Leonard Mcharo.

Tsavo Delight, Kileleshwa has over 700 units in its 25 storeys, It provides luxurious and comfortable accommodations for Nairobi's city's ever growing demographic. The concept we established while working on the electrical systems designs of this building; We introduced the KNX building information system, one of the recent technology in Building Management System (BMS).

We wanted the building to achieve the maximum security and safety of the property as well as the environmental protection. This green building in the city uses solar energy to power to power itself.



02

Capital Suites Hotel.

Project manager:

Capital Suites Hotel in Parklands its 25 storeys, It provides luxurious and comfortable accommodations for Nairobi's city's ever growing demographic. The concept we established while working on the electrical systems designs of this building; We introduced the KNX building information system, one of the recent technology in Building Management System (BMS).

We wanted the building to achieve the maximum security and safety of the property as well as the environmental protection. This green building in the city uses solar energy to power to power itself.





Scope of work

Preparing Mechanical and Electrical drawings and specifications. Prepare MEP systems interrelationships, construction sequencing and project schedule, Facilitate problem solving, as may arise, between MEP Subcontractors during construction. Log and post all MEP changes and as-built information on field drawings. Assist in the scope review, budgeting and justification of MEP change order. Review and monitor the activities of MEP Subcontractor. Coordination and administration of MEP related materials, systems and shop drawings submittal. Ensure that MEP Subcontractors provides and adheres to relevant Quality documentation/records. Ensure that MEP Subcontractors adheres to Project safety regulations. Assist in the testing and commissioning of MEP equipment.



PROPOSED RESIDENTIAL DEVELOPMENT ON PLOT L.R NO. 12882/161 KAREN.	
CLIENT M.K.M.K	
ARCHITECT Everett Studios Ltd P.O. BOX 42461-00100, Nairobi	
CIVIL/STRUCTURAL ENGINEER MASFY CONSULTANTS Engineers & Project Managers & Construction Advisors P.O. Box 26797-00504, Nairobi	
MECHANICAL ENGINEER QUANTUM MEP CONSULTANTS P.O. Box 2084 - 00502, Nairobi, Kenya	
ELECTRICAL ENGINEER QUANTUM MEP CONSULTANTS P.O. Box 2084 - 00502, Nairobi, Kenya	
Candlestick CANDLESTICK COST SOLUTIONS LTD P.O. Box 13553-00800, Nairobi	
QUANTITY SURVEYOR Candlestick CANDLESTICK COST SOLUTIONS LTD P.O. Box 13553-00800, Nairobi	
MAIN CONTRACTOR KALIBIN BUILDING CONTRACTORS LTD P.O. BOX 17088-80100, Mombasa	
NEMA APPROVAL NEMA/NRB/PR/5/1/20.527	NCA APPROVAL 53227715710905
COUNTY APPROVAL PLUPA-BPM-005194-N	



04

Tsavo SkyWalk.

Project manager: Arch. Kelvin Kariuki.

Tsavo Skywalk Wanye Road has over 600 units in its 13 storeys, It provides luxurious and comfortable accommodations for Nairobi's city's ever growing demographic. The concept we established while working on the electrical systems designs of this building; We introduced the KNX building information system, one of the recent technology in Building Management System (BMS).

We wanted the building to achieve the maximum security and safety of the property as well as the environmental protection. This green building in the city uses solar energy to power to power itself.



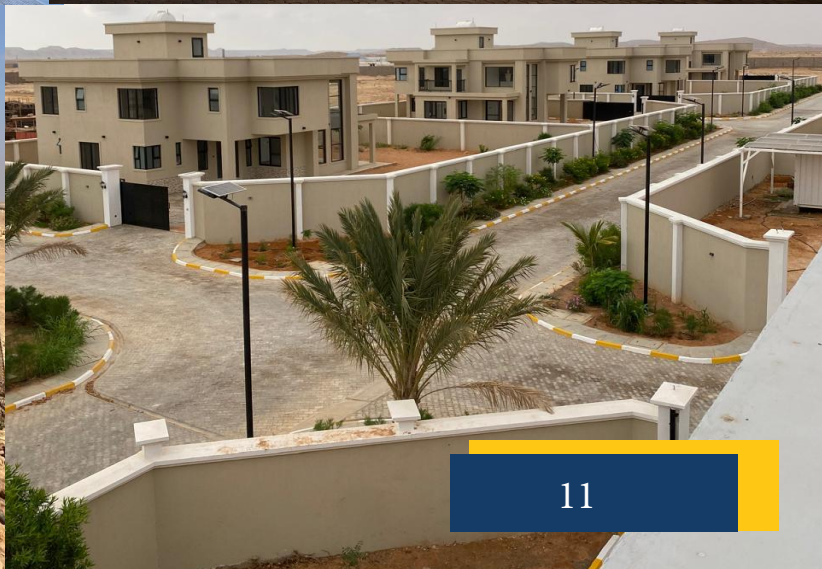
05

EMAAD PROPERTIES, GAROOWE, SOMALIA.



Scope of work

Efficient air-conditioning and ventilation systems, solar and conventional hot-water systems, and reliable power distribution with internal and external lighting, backup power, earthing, and lightning protection. We also implemented smart and secure low-current systems such as CCTV, access control, and structured data networks. Plumbing works covered water supply systems with storage and boosting, hot and cold water distribution, sanitary installations, sewer/septic solutions, and storm water management.



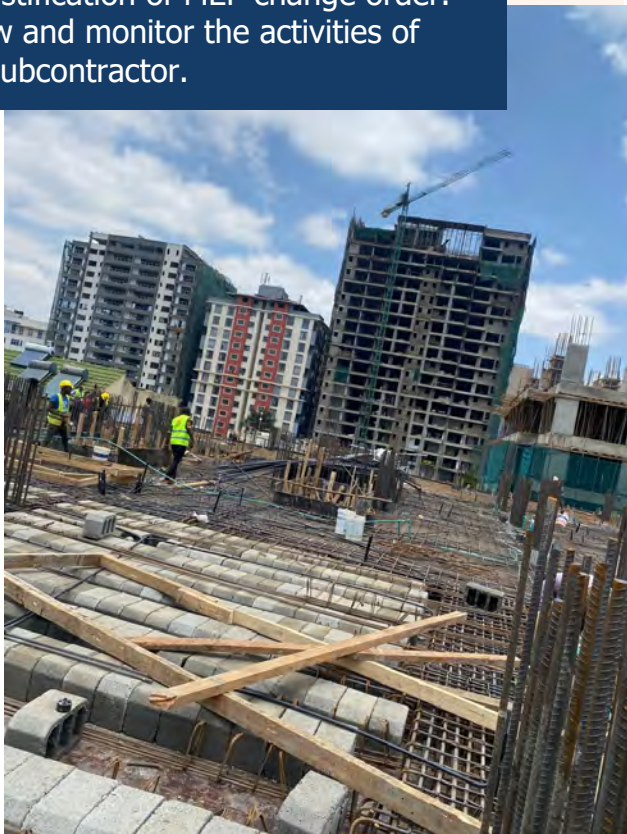
SweetHomes Batu Batu Apartment, Parklands, Nairobi

Project manager: Design Assembly Architects

06

Scope of work

MEP Design, Quantum Consultants developed a design concept for the 21 storey apartment building that includes Preparing Mechanical and Electrical drawings and specifications. Prepare MEP systems interrelationships, construction sequencing and project schedule, Facilitate problem solving, as may arise, between MEP Subcontractors during construction. Log and post all MEP changes and as-built information on field drawings. Assist in the scope review, budgeting and justification of MEP change order. Review and monitor the activities of MEP Subcontractor.



07

Tsavo Apartment

Royal Suburbs

Project manager: Arch. Benson Kauni



Scope of work

Royal Suburbs has over 500 units in its 13 storeys. Preparing Mechanical and Electrical drawings and specifications. Prepare MEP systems interrelationships, construction sequencing and project schedule, Facilitate problem solving, as may arise, between MEP Subcontractors during construction. Log and post all MEP changes and as-built information on field drawings. Assist in the scope review, budgeting and justification of MEP change order. Review and monitor the activities of MEP Subcontractor. Coordination and administration of MEP related materials, systems and shop drawings submittal. Ensure that MEP Subcontractors provides and adheres to relevant Quality documentation/ records. Ensure that MEP Subcontractors adheres to Project safety regulations. Assist in the testing and commissioning of MEP equipment.

08

Office block & Hangar. Wilson Airport, Lang'ata Nairobi, Kenya



Scope of work

Design, installation, testing, and commissioning of HVAC systems for offices and hangars, including ventilation and environmental control for aircraft maintenance areas. Electrical works included power distribution, high-bay and apron lighting, backup power systems, earthing and lightning protection, and aviation-compliant low-current systems such as CCTV, access control, fire alarm, and structured communications. We also deliver comprehensive plumbing and drainage systems, including water supply, sanitary installations, oil-water separation, and storm-water management.

09

ZENLUX PROPERTY

Project manager: Arch.
ANAAK



Scope of work

Air conditioning and ventilation systems, solar and conventional hot water systems, power distribution, lighting, backup power solutions, earthing and protection systems, as well as low-current installations such as CCTV and data networks. We also delivered complete plumbing and drainage systems, including water supply, sanitary installations, sewer/septic solutions, and storm-water management.



Scope of work

Preparing Mechanical and Electrical drawings and specifications. Prepare MEP systems interrelationships, construction sequencing and project schedule, Facilitate problem solving, as may arise, between MEP Subcontractors during construction. Log and post all MEP changes and as-built information on field drawings. Assist in the scope review, budgeting and justification of MEP change order. Review and monitor the activities of MEP Subcontractor. Coordination and administration of MEP related materials, systems and shop drawings submittal. Ensure that MEP Subcontractors provides and adheres to relevant Quality documentation/records. Ensure that MEP Subcontractors adheres to Project safety regulations. Assist in the testing and commissioning of MEP equipment.

11

Mwatate Mall

Project



Scope of work

Mwatate Mall has over 150 stores, banking halls, supermarket & cafes in its 3 storeys. Preparing Mechanical and Electrical drawings and specifications. Prepare MEP systems interrelationships, construction sequencing and project schedule, Facilitate problem solving, as may arise, between MEP Subcontractors during construction. Log and post all MEP changes and as-built information on field drawings. Assist in the scope review, budgeting and justification of MEP change order. Review and monitor the activities of MEP Subcontractor. Coordination and administration of MEP related materials, systems and shop drawings submittal. Ensure that MEP Subcontractors provides and adheres to relevant Quality documentation/ records. Ensure that MEP Subcontractors adheres to Project safety regulations. Assist in the testing and commissioning of MEP equipment.



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Naivas, Lang'ata Road, Nairobi

Project manager: Arch. Edwin Gathuthu **Scope of work**

MEP Design, HVAC Electrical and low current Design Electrical systems Installations Low current systems installation



13

Tsavo Fedha Apartment

Project Manager: Arch. Mutiso

Scope of work:

With over 320 units, 13 Storey Apartment we designed: MEP Designs, Electrical designs, Plumbing and Fire fighting systems.





14

Tilisi Office Block

Project manager: Mr. Edwin Gatuthu

Scope of work

MEP Design, Electrical system installation Mechanical systems Plumbing works, Fire and safety system (CCTV, Access control, fire detection and alarm system)



15

Tsavo Thindigua, Apartment

Project manager: Arch. Faith Kimeli

Scope of work

With over 500 units, 9 Storey Apartment we designed for MEP.



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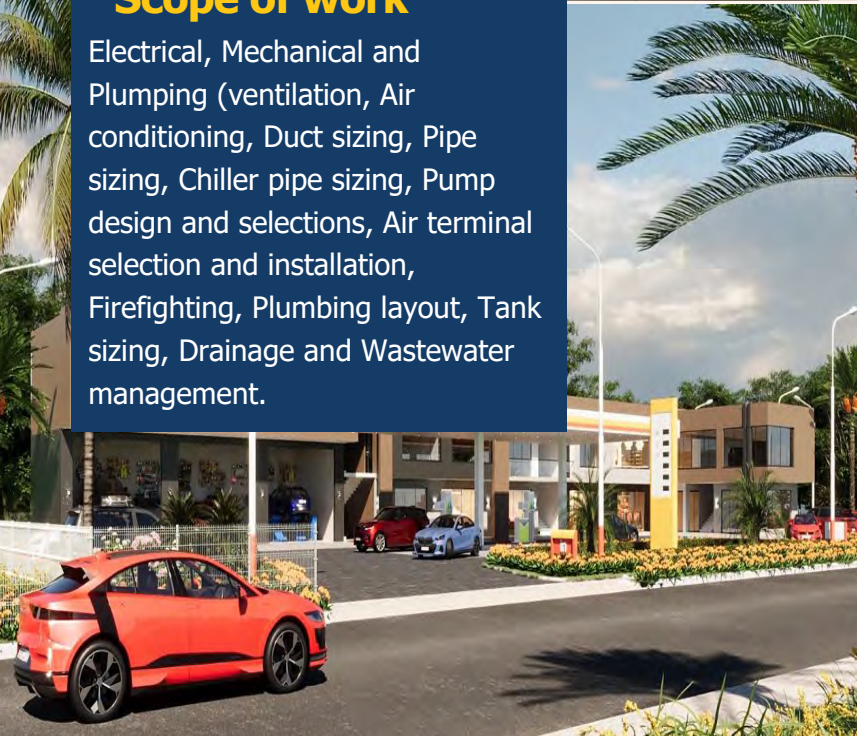
Petrol Station, Tilisi, Limuru

Project manager: Arch. Edwin Gatuthu



Scope of work

Electrical, Mechanical and Plumbing (ventilation, Air conditioning, Duct sizing, Pipe sizing, Chiller pipe sizing, Pump design and selections, Air terminal selection and installation, Firefighting, Plumbing layout, Tank sizing, Drainage and Wastewater management.





17

Eden Court Villas, Karen Nairobi

Project manager: Arch. Benson
Kauni

Scope of work

MEP design and Build
(Fire and safety system, Intercom system,
Electrical works and Low current, Plumbing
works).



18 Tatu-City Residence.



Scope of work

MEP design(Fire and safety system, Intercom system, Electrical works and Low current, Plumbing works).

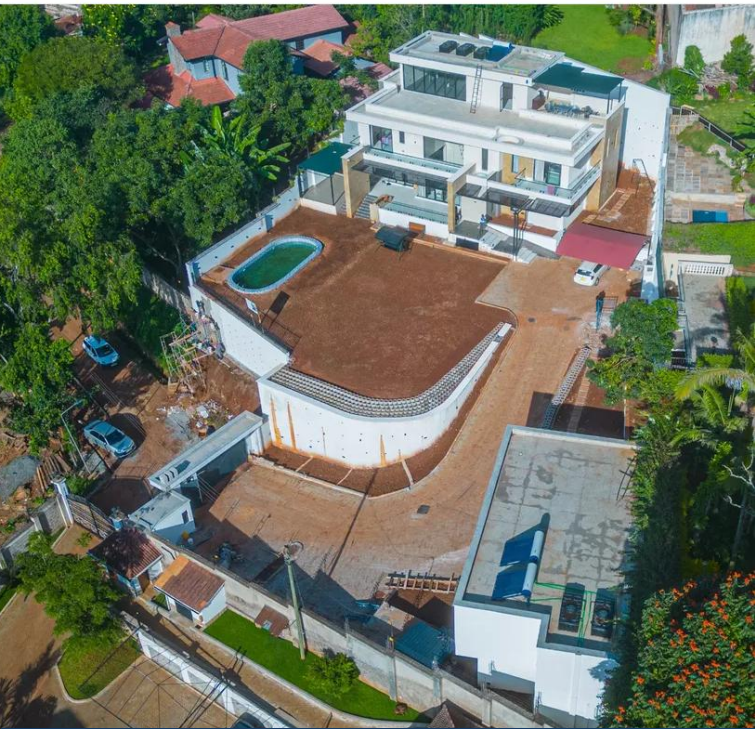




Scope of work

Centralized and split air-conditioning systems, mechanical ventilation for common and service areas, and energy-efficient hot-water systems, such as solar water heating. Electrical works include power distribution, internal and external lighting, backup power solutions (generators/inverters), earthing and lightning protection, as well as low-current systems including CCTV, access control, and structured cabling.





Scope of work:

Preparing Mechanical and Electrical drawings and specifications. Prepare MEP systems interrelationships, construction sequencing and project schedule, Facilitate problem solving, as may arise, between MEP Subcontractors during construction. Log and post all MEP changes and as-built information on field drawings. Assist in the scope review, budgeting and justification of MEP change order. Review and monitor the activities of MEP Subcontractor. Coordination and administration of MEP related materials, systems and shop drawings submittal. Ensure that MEP Subcontractors provides and adheres to relevant Quality documentation/records. Ensure that MEP Subcontractors adheres to Project safety regulations. Assist in the testing and commissioning of MEP equipment.



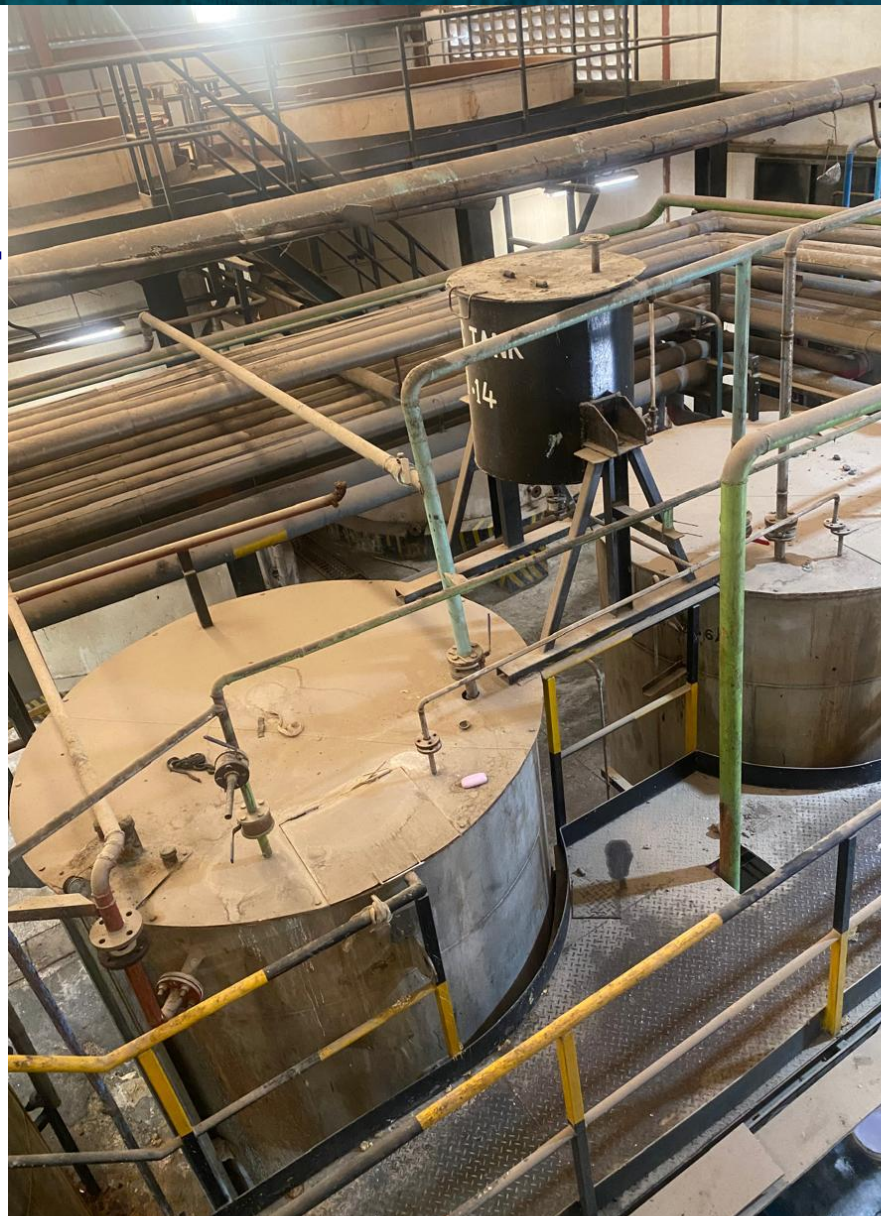
21

Kapa Oil Refineries, Nairobi, Kenya.

Kapa oil Refineries is Situated in the ultra-modern industrial park in Nairobi. It's manufacture of edible oils, margarine, baking powder, detergent powder, laundry and toilet soaps, and glycerine Kenya. Electrically powered with over 140 Kw, worth 80m+ Kes, the warehouse has the capacity to accommodate over four commercial trucks, and passenger vehicles.

In compliance with Kenya Power standards regarding industries, Quantum MEP Consultants designed concepts for the warehouse's oil handling systems, firefighting systems and its pump and piping calculations.

We also drew the electrical plans and mechanical drawings. the skills of our electrical engineers contributed in designing the predictable transformer and switchgear sizing with their rated load, with safety, security and energy saving in mind.



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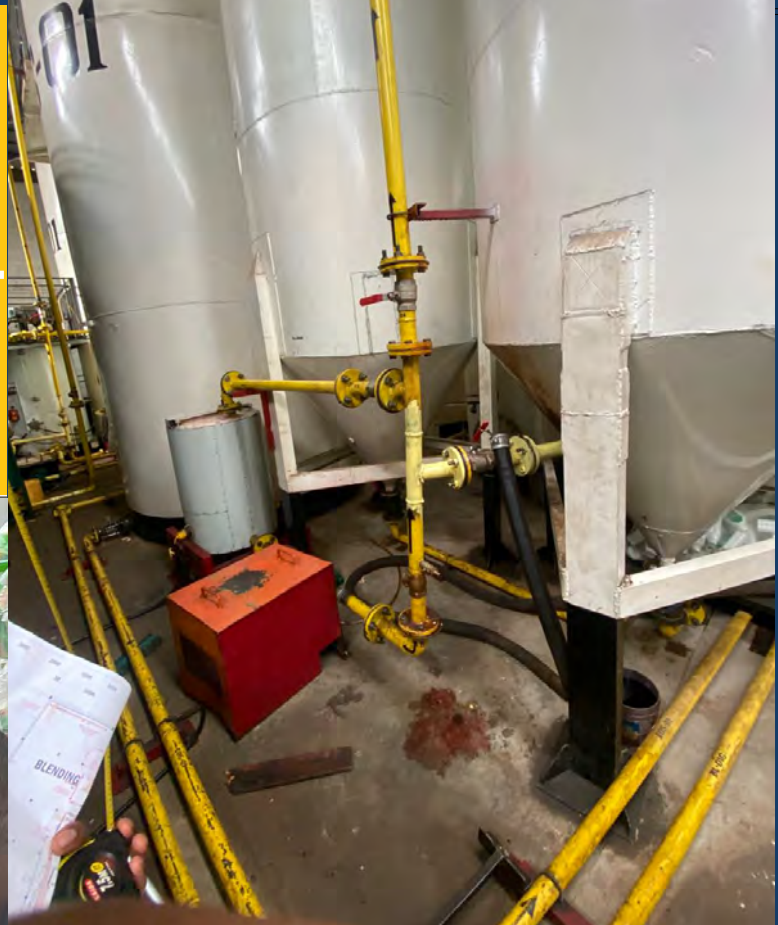
Iber Africa Power Station. Nairobi

Project manager: Mr. Jeff
Kimathi.



Scope of work

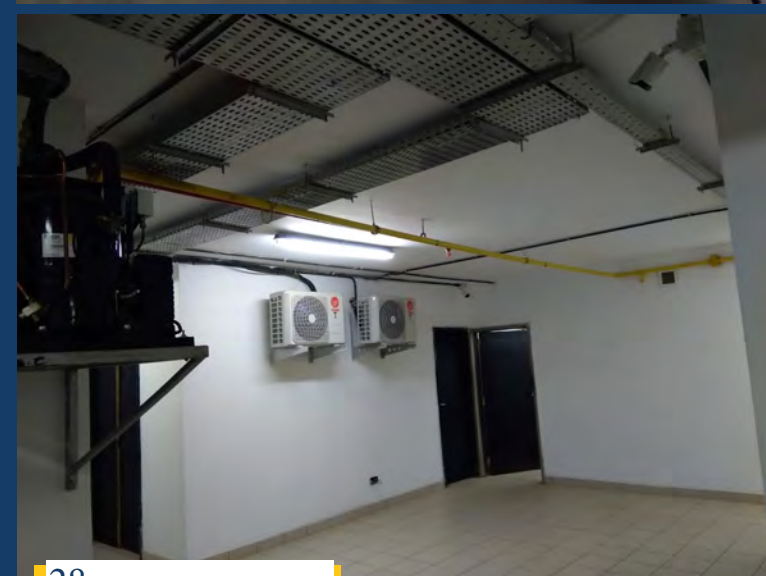
MEP Design (Fire and safety
works, Plumbing, Electrical and
Low current, Duct sizing, Pipe
sizing, Chiller pipe sizing, Pump
design and selections,
Firefighting, Plumbing layout,
Tank sizing and Drainage.



Scope of work

MEP Design (Fire and safety works, Plumbing, Electrical and Low current, Duct sizing, Pipe sizing, Chiller pipe sizing, Pump design and selections, Firefighting, Plumbing layout, Tank sizing and Drainage.





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PullMan Hotel, Fit-Out Nairobi

Quantum MEP Consultants developed a design concept for the building that includes firefighting systems, electrical power distribution, low current systems, plumbing systems, HVAC and wastewater treatment plant design.

These systems were designed to efficiently reduce emission of CO_2 while being easily usable and optimizing safety of the property, by the use of modern softwares like AutoCAD electrical and Revit.



Scope of work

Air conditioning and ventilation systems, solar and conventional hot water systems, power distribution, lighting, backup power solutions, earthing and protection systems, as well as low-current installations such as CCTV and data networks. We also deliver complete plumbing and drainage systems, including water supply, sanitary installations, sewer/septic solutions, and storm-water management.





Scope of work

MEP Design: Fuel System Installation, Fire Protection System, HVAC (for Buildings), Electrical Works: Power Supply & Distribution, Backup Power, Lighting Systems, ELV / Low Current Systems, Plumbing & Drainage Works, .





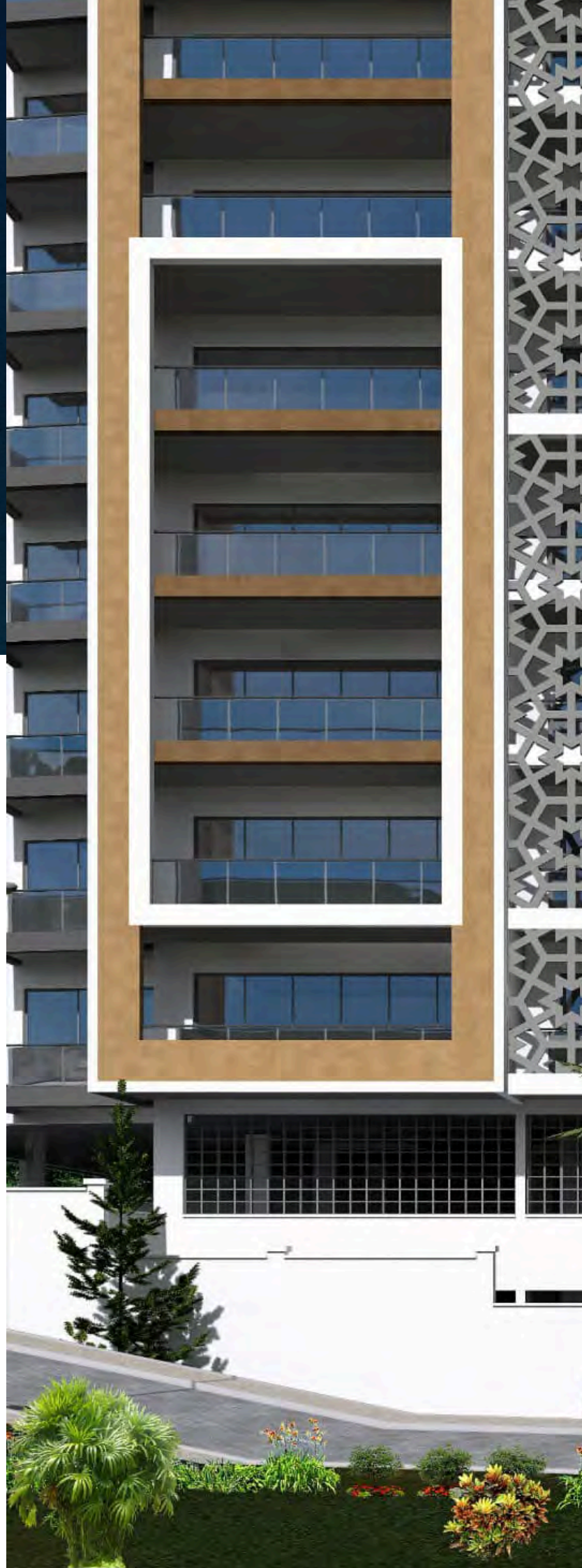
Scope of work

MEP Design (Fire and safety works, Plumbing, Electrical and Low current, Duct sizing, Pipe sizing, Chiller pipe sizing, Pump design and selections, Firefighting, Plumbing layout, Tank sizing and Drainage.



OTHER PROJECTS WE WORKED ON

- ✓ **Lavington Residence, Nairobi, Kenya.**
Scope of work
MEP as build, Alarm and Intercom Design.
- ✓ **Vetcare, Tilisi Office Block**
Scope of work
Electrical design and installation, Plumbing and Fire fighting Equipments Installation.
- ✓ **Tsavo Sky-Walk- Wanye Road**
Scope of work
MEP Design Fire fighting design & supervision
- ✓ **Nakuru House – Kenya**
Scope of work
Electrical and low current installation / partitioning



The Team



Eng. Mohammed Sagwe is the Managing Director and Co-founder of Quantum MEP Consultants.

Eng. Mohammed is a professional Engineer with a degree in engineering from the University of Nairobi



AutoCAD



Revit



**AUTODESK
ROBOT**

"Quantum MEP Consultants solely concentrates on the design, installation, and supervision of MEP Engineering services that meet customer needs and pass professional standards in Kenya and internationally through extensive expertise.

An important component of our vision is to position ourselves as the leading provider of MEP services in Kenya"



**Eng. Faiza Wambui Mbugua, B.Sc. (ME),
R.Eng.: No.A4407
Senior Mechanical Engineer & Quality Assurance**

"The job isn't just to fix the problem; it is also to restore the customer's confidence"

We all make mistakes, but what sets us apart is our commitment to making things right. Falling short? Don't just aim to fix the problem and move on. Take it as an opportunity to exceed expectations and restore trust. So let's commit to putting our best foot forward, because every interaction is a chance to make someone's day a little brighter.



**Mr. Wambua Ngoo
Electrical Technician(Kenya)**

" If you ask yourself "what if I stumble?" Also be sure to ask yourself "what if I achieve greatness?" "

Deep within, we often have a sense of what we want in life. What sets us apart is the power of positivity, discipline, and self-drive. Once this realization dawns, each moment presents an opportunity for the real transformation you need. No one said this is an easy path. Nothing is as simple as we'd like it to be. Sometimes we stumble, some-times we soar.



**Eng. Mr. Gilberto Oroo Omwenga – Bsc. (ME)
Mechanical Engineer(Kenya)**

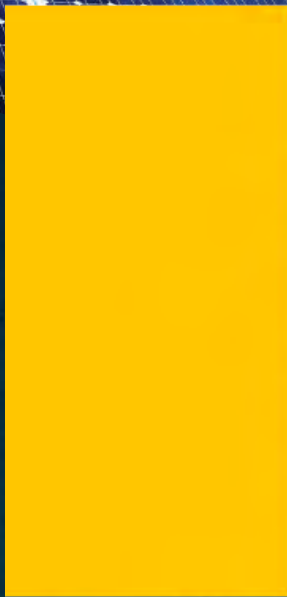
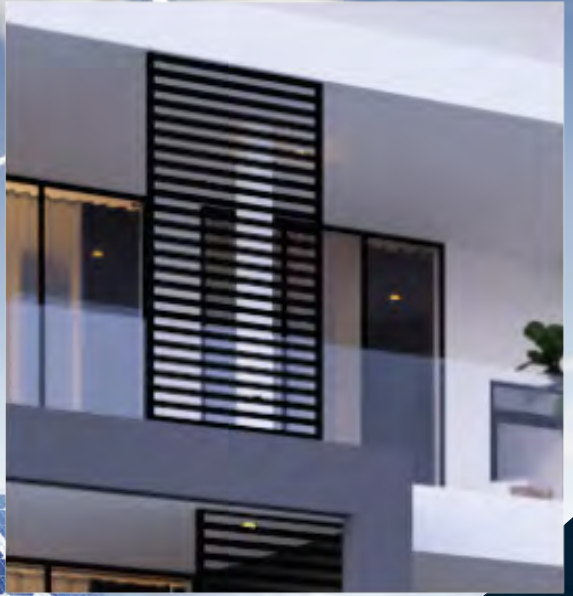
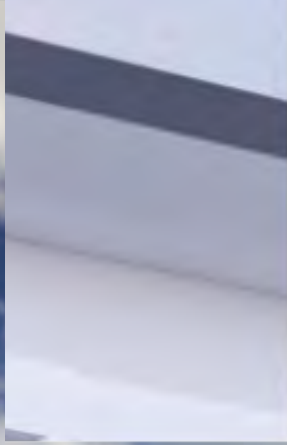
"Greatest glory is not in never falling, but in rising every time there is a fall. "

Don't be afraid to take on new challenges and push your limits because past successes showcase abilities. So keep pushing yourself and stay motivated to achieve your goals!



OUR CLIENTS & PARTNERS

The TSAVO logo consists of the word 'TSAVO' in a white, sans-serif font, centered within a solid orange square.



QUANTUM

M.E.P. CONSULTANTS

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The Oval, Westlands, Nairobi,
Kenya.

