ENGINEERING CONSULTANCY · COMPANY PORTFOLIO

Clarity in design. Confidence on site.

Coordinated engineering across all disciplines, from concept through handover.

AFAQ CONSULTANT

آفـــاق للإستشارات الهندسية

2026

EGYPT / SAUDI ARABIA / OMAN / UAE

PROFILE

One team. Connected expertise.

MEP engineering, architectural & structural shop drawings, quantity surveying and BIM coordination.

AFAQ is an Egypt-based engineering consultancy supporting owners, consultants and contractors across the project lifecycle.

Our work connects MEP design, architectural and structural shop drawings, quantity surveying and BIM modeling with technical office services, supervision and handover. The aim is clear: coordinated disciplines, traceable decisions and usable deliverables.



15+ Years of experience

50+ Engineers

38 Portfolio entries

4 Countries

DISCIPLINES MEP · ARCHITECTURAL · STRUCTURAL · BIM · QUANTITY SURVEYING

CODE REFERENCES ECP · SBC · ASPE · ASHRAE · NFPA · NEC · IEC

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SERVICES

Expertise across the delivery cycle.

Nine complementary services across every building discipline, tailored to the project and its stage.

01
MEP Design
HVAC, electrical, plumbing, fire protection and ELV design aligned with project requirements and applicable codes.

02
MEP Shop Drawings & As-Built
Construction-ready, coordinated MEP drawings, schedules and accurate as-built documentation.

03
BIM Modeling
Revit modeling from LOD 300-500 for architectural, structural and MEP models, clash detection and model-based quantities.

04
Architectural Shop Drawings
Setting-out plans, finishes, reflected ceilings, door and window schedules, sections and construction details.

05
Structural Shop Drawings
Reinforcement detailing, bar bending schedules, formwork drawings and MEP openings coordinated with the structure.

06
Quantity Surveying
Quantity take-off across all disciplines, BOQ preparation, cost estimates, interim measurement and variations.

07
Technical Office
RFIs, submittals, pricing support, tender comparisons, value engineering and contractor-side technical support.

08
Site Supervision
Material submittals, documented inspections, progress reporting, testing, commissioning and handover support.

09
Independent Design Review
Third-party review of loads, systems, code compliance, constructability and value before approval.

DELIVERY APPROACH

Defined scope. Documented decisions.

A clear sequence from the initial brief to handover.

01

Scope Intake

Confirm brief, contract requirements, deliverables, LOD and code basis.

02

Design & Modeling

Develop calculations, drawings and the coordinated model across disciplines.

03

Coordination

Resolve clashes between architecture, structure and services before they reach site.

04

Delivery Packages

Issue numbered drawings, specifications and model-derived quantities.

05

Supervision & Handover

Track site activity, answer RFIs, support commissioning and close out as-built records.



OUR DELIVERY STANDARD

A named point of contact, a documented technical basis and numbered packages that are easy to review, track and issue.

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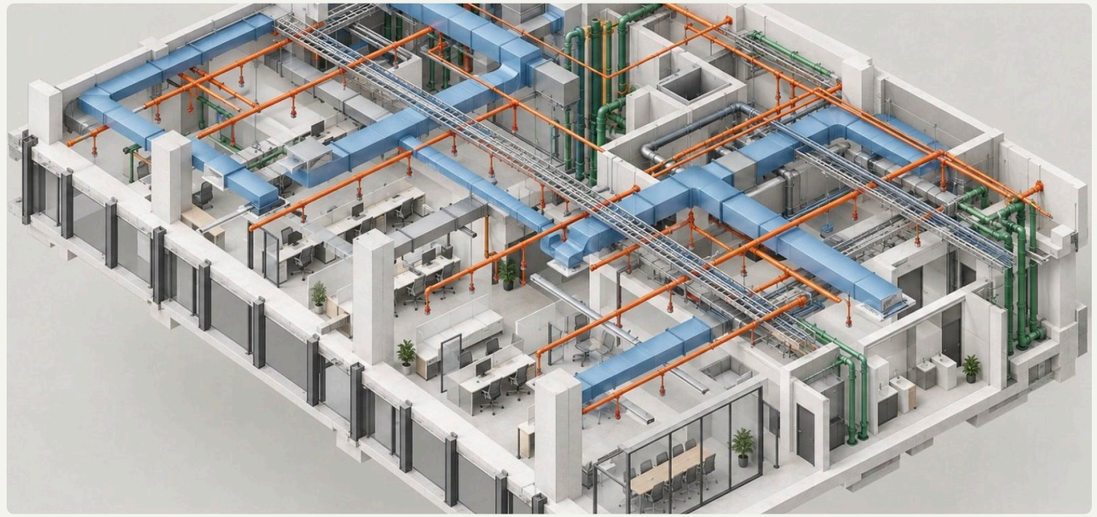
DIGITAL DELIVERY

From coordinated model to clear documentation.

Connecting engineering decisions with construction information.



BIM coordination

Spatial coordination of architectural, structural and MEP elements: ducts, pipes, cable containment, openings and sleeves.



Construction documentation

Architectural, structural and MEP drawings with quantities, organized for review, approval and delivery.

AI-generated engineering illustrations · conceptual imagery, not AFAQ project photographs or models

MEP SYSTEMS

Engineering the systems behind every space.

Selected examples of the technical environments we support.



Fire protection

Design review, hydraulic calculations and coordinated fire-protection documentation.



Electrical systems

Power distribution, load assessment and coordinated electrical design support.



HVAC systems

Heating, ventilation and air-conditioning design with coordinated ducts, pipework and equipment.

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ARCHITECTURAL · STRUCTURAL · QUANTITIES

Execution drawings and quantities for every discipline.

Construction-stage support delivered alongside our MEP work and coordinated in one model.

A

Architectural shop drawings

- Setting-out and dimensioned floor plans
- Finishes layouts and reflected ceiling plans
- Door, window and finishes schedules
- Sections, elevations and construction details
- Wet areas, staircases and façade interfaces

S

Structural shop drawings

- Reinforcement details for foundations, columns, beams and slabs
- Bar bending schedules
- Formwork and concrete outline drawings
- Openings, sleeves and embedded items coordinated with MEP
- Steel connection and miscellaneous metalwork details

Q

Quantity surveying

- Take-off from drawings and BIM models
- BOQ preparation and pricing support
- Cost estimates and tender comparisons
- Interim measurement and variation tracking
- Quantity reconciliation at handover

BASIS OF WORK Shop drawings are developed from the approved design and issued for the design consultant's review and approval, so architecture, structure and services reach site as one coordinated set.

PORTFOLIO GUIDE

Seven sectors. Regional experience.

38 portfolio entries across Egypt, Saudi Arabia, Oman and the UAE.

01	Infrastructure & Roads	07 entries	SHEET 09
02	Commercial & Administrative	11 entries	SHEET 10
03	Industrial & Data Centres	06 entries	SHEET 12
04	Aviation & Critical Facilities	03 entries	SHEET 13
05	Hospitality & Leisure	03 entries	SHEET 14
06	Residential & Communities	04 entries	SHEET 15
07	Education & Institutional	04 entries	SHEET 16
08	Recently Started · 2026	03 entries	SHEET 17



SECTOR 01 / 07 · 7 PROJECTS

Infrastructure & Roads

Coordinating road corridors, utility networks and the interfaces below ground.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
Marassi Red Sea – Phase 1A Soma Bay, Safaga · 2026	BIM modeling and coordinated shop drawings Emaar Misr / Elsewedy
Ain Sokhna Industrial Park Ain Sokhna · 2026	BIM infrastructure shop drawings Concord / Kemet Industries
Capritage Helwan Helwan · 2026	Architectural, structural, MEP and infrastructure shop drawings Concord
Al Masar 1 New Administrative Capital · 2025	Infrastructure shop drawings Concord
Petrified Forest Cairo · 2025	Infrastructure shop drawings Concord
Owainat Mobilization Camp Owainat · 2026	Integrated camp utilities design Concord / Innovate
Lamira Village Sewage Treatment Plant North Coast · 2026	Structural design of a 2 × 150 m³/day STP, tanks and 3 lift stations, with site supervision Lamira Village Owners' Union



SECTOR 02 / 07 · SELECTED PROJECTS 1 OF 2

Commercial & Administrative

Multidisciplinary engineering for retail, offices and mixed-use developments.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
Mehwar Plaza Mall Egypt · 2026	Supervision, technical office, fire reports, architectural & structural shop drawings and quantity take-off Namaa Alkhaleej
Val Plaza Mall 6th of October · 2026	Supervision and technical office: architectural, structural and MEP Jawad Real Estate Development
VOCO Mall New Administrative Capital · 2026	Independent electrical design review Client not specified in source
STARS New Administrative Capital · 2026	Independent electrical design review Client not specified in source
Pavo Tower New Administrative Capital · 2026	MEP design Mercon Development
Riyard Mixed-Use Complex Riyadh, KSA · 2026	BIM LOD 300 (architectural, structural & MEP), MEP design review and quantity take-off Confidential client



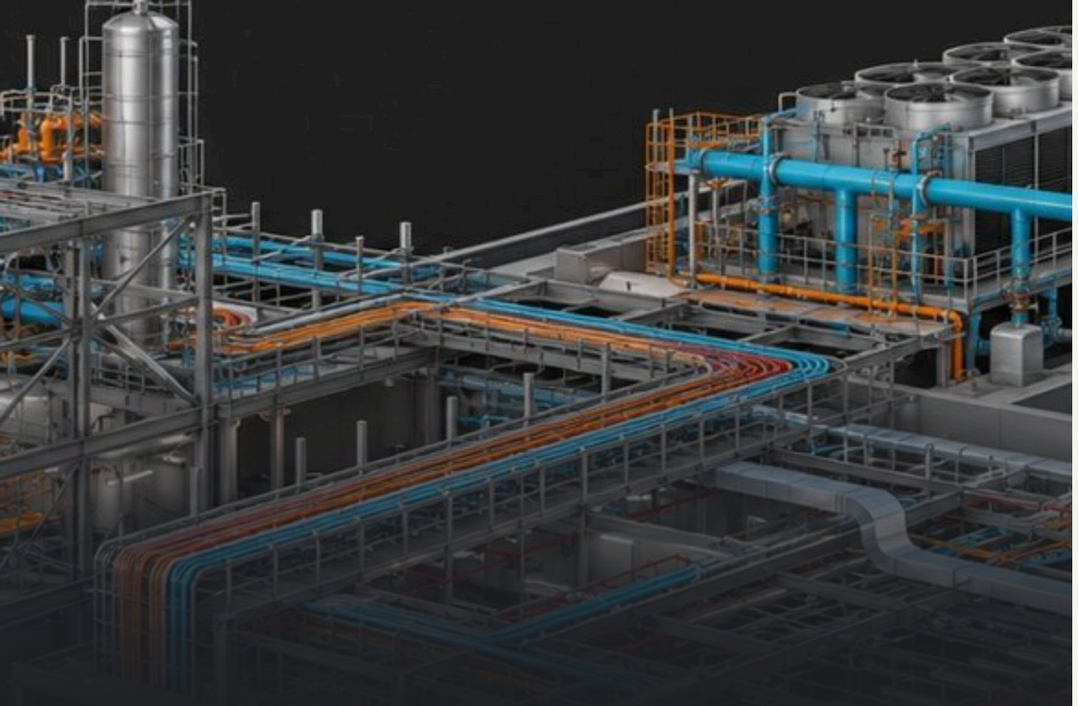
SECTOR 02 / 07 · SELECTED PROJECTS 2 OF 2

Commercial & Administrative

Multidisciplinary engineering for retail, offices and mixed-use developments.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
City Edge – 61 Feddan New Administrative Capital · 2026	MEP design IDIA
Nefertari Mall Obour · 2025	Technical office: architectural, structural and MEP shop drawings and quantities Concord / Kemet
Al-Kharafi Complex Saudi Arabia · 2025	Technical office, BIM and Revit: architectural, structural and MEP Crystal
Olaya Tower + Mixed Use Riyadh · 2025	Design MCD + Partners
Kasrawy Car Showroom Abu Rawash · 2022-2023	Design, support and supervision Kasrawy Group



SECTOR 03 / 07 · 6 PROJECTS

Industrial & Data Centres

Engineering support for intensive services and critical operating environments.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
L'Oréal Factory 10th of Ramadan · 2026	Fire, electrical and structural technical reports QHSSE Platform
Technical Office & Estimation Egypt / International · 2026-2027	Studies, multidisciplinary quantity take-off, pricing and bid comparison Afro Solutions
Sokhna Road Data Center Sokhna Road · 2023-2024	MEP design and technical support Huawei / Afro
New Factory Obour · 2025	Technical office: architectural, structural and MEP shop drawings and quantities TEPCO / Concord
MOPCO Fertilizers Damietta · 2021	Lightning protection design and support MOPCO
Multiple Industrial Projects Egypt · 2022-2025	Design verification, fire calculations and reports QHSSE Platform



SECTOR 04 / 07 · 3 PROJECTS

Aviation & Critical Facilities

Systems coordination for facilities with demanding operational requirements.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
Cairo Airport Terminals 2, 3 & Seasonal Cairo · 2022-2025	Fire-alarm design and technical support Cairo Airport / Honeywell
4 Towers & 2 Malls Saudi Arabia · 2023	MEP review, Revit shop drawings (architectural, structural and MEP) and approvals Umm Al Qura / ACC-BAYTUR
Upper Zakum Sewage Treatment Plant UAE · 2024	Final design report and site technical support ADNOC / AMG Al Amar



SECTOR 05 / 07 · 3 PROJECTS

Hospitality & Leisure

Building services that balance guest comfort and operational needs.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
Boutique Hotel – Sahl Hasheesh Red Sea · 2026	MEP design Eng. Tarek Emam
Salalah Boulevard – Municipal Leisure Centre Oman · 2024	Detailed design, BIM and Revit Al-Manarah Consultancy
Marsa Baghush North Coast · 2020-2023	Electrical design, supervision and support Baghoush



SECTOR 06 / 07 · 4 PROJECTS

Residential & Communities

Coordinated services from community networks to individual buildings.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
Villa 301 – East Bay New Administrative Capital · 2026	MEP design IDIA / Kerma Farms
Downtown Residential – Zayed City Sheikh Zayed · 2024	Mechanical and electrical design Arkan Palm
October Gardens Compound 6th of October · 2025	Design package MCD + Partners
Bianchi Resort – Villas Egypt · 2026	MEP shop drawings for 11 villa types Eng. Mohamed Galal



SECTOR 07 / 07 · 4 PROJECTS

Education & Institutional

Detailed engineering for teaching, research and institutional spaces.

AI-generated sector illustration · illustrative, not a project model

PROJECT · LOCATION · YEAR	SCOPE · CLIENT
Business Administration Institute Egypt · 2023-2024	Detailed MEP design MDE Middle East
Nursing Institute Egypt · 2023-2024	Detailed MEP design MDE Middle East
King Fahd University of Petroleum & Minerals Saudi Arabia · 2021	MEP design and technical support KFUPM
Misr University for Science & Technology 6th of October · 2020	Electrical design, supervision and support MUST

RECENTLY STARTED · 2026

New projects, every discipline.

Recent commissions across Saudi Arabia and Egypt, now in progress.



COMMERCIAL · BIM · QS

Riyard Mixed-Use Complex

Riyadh, KSA · 2026

Multidisciplinary BIM at LOD 300 for architecture, structure and MEP, review of the MEP design and quantity take-off for all disciplines.

Concept masterplan · client-supplied image



RESIDENTIAL · MEP SHOP DRAWINGS

Bianchi Resort – Villas

Egypt · 2026

MEP shop drawings across 11 villa types: HVAC, drainage, water supply, power, lighting, low current and earthing, coordinated with architecture and structure.

Developer render · client-supplied image



INFRASTRUCTURE · STRUCTURAL

Lamira Village Sewage Treatment Plant

North Coast · 2026

Civil and structural design of a 2 × 150 m³/day treatment plant, its tanks and three lift stations, followed by phased site supervision.

Developer render · client-supplied image



PROJECT FOCUS · INFRASTRUCTURE

Marassi Red Sea – Phase 1A

Activation Area Main Road (Rr1 + Gate)

ASSIGNMENT

A coordinated BIM and shop-drawing package for the main activation-area road and gate, developed from the issued-for-construction design.

Client: Emaar Misr | Main contractor: Elsewedy | Soma Bay, Safaga | 2026

AI-generated sector illustration · illustrative, not a project model

LOD 350
MODEL DETAIL

IFC
DESIGN BASIS

Revit
MODELING PLATFORM

Multi-discipline
COORDINATED PACKAGE

SCOPE & DOCUMENTED FINDINGS

- General arrangements, site levels and road works
- Wet utilities: potable water, external fire, irrigation, foul drainage and stormwater
- Electrical, telecommunications and smart systems
- SCADA monitoring and controls
- Temporary mechanical works and multidisciplinary coordination



PROJECT FOCUS · COMMERCIAL

Mehwar Plaza Mall

Technical Office, Fire Protection & Shop Drawings

ASSIGNMENT

Site supervision and technical-office support for a mixed commercial and administrative mall, including an approved fire-protection report, hydraulic calculations and multidisciplinary shop drawings.

Client: Namaa Alkhaleej | Egypt | 2026

AI-generated system illustration · not an actual project image

507 GPM
GOVERNING FLOW

OH-2
HAZARD CLASS

145.6 PSI
REQUIRED PRESSURE

B02-04
FLOOR RANGE

SCOPE & DOCUMENTED FINDINGS

- NFPA-compliant automatic sprinkler system
- Hose reels and landing valves
- Dedicated fire pump and water storage
- Architectural and structural shop drawings
- Quantity take-off: architectural, structural, fire and plumbing
- Coordinated floor-by-floor MEP shop drawings



PROJECT FOCUS · COMMERCIAL

VOCO & STARS

Third-Party Electrical Design Review

ASSIGNMENT

Independent electrical design review covering single-line diagrams, load schedules, cable distribution and solar systems before construction approval.

New Administrative Capital, District 3 | 2026

AI-generated system illustration · not an actual project image

56
DOCUMENTED COMMENTS

8
CRITICAL FINDINGS

15
HIGH-IMPACT FINDINGS

2
PROJECTS

SCOPE & DOCUMENTED FINDINGS

- Calculated loads exceeded the capacity of the proposed transformers; the source reports a figure of up to 106%.
- Conflicting room and main-board details within the same package
- Emergency generator capacity below the required load, before allowing for fire-pump starting current.
- Cable and breaker ratings below connected circuit loads
- Solar configuration incompatible with the proposed strings
- Inconsistent load totals within individual drawings.



PROJECT FOCUS · INDUSTRIAL

L’Oréal Factory

Main Electrical Room Gap Analysis

ASSIGNMENT

Gap analysis for the FM-200 suppression system serving the main electrical room, coordinated with structural works and the containment tank.

Client: QHSSE Platform | 10th of Ramadan | 2026 | NFPA 2001

AI-generated system illustration · not an actual project image or documented installation

714 m^3
ROOM VOLUME

7%
DESIGN CONCENTRATION

469 kg
REQUIRED AGENT

360 kg
INSTALLED AGENT

SCOPE & DOCUMENTED FINDINGS

- FM-200 quantity calculation to NFPA 2001 with a 1.2 safety factor
- Shortfall identified between required and installed agent quantity
- Uncontrolled ventilation openings and unsealed penetrations documented
- Room integrity and retention-time testing recommended
- Approved structural details and reinforcement schedules issued

RELATIONSHIPS

Experience built through collaboration.

Selected clients and collaborators.

EMAAR MISR	ELSEWEDY	MOPCO	HUAWEI
CONCORD	HONEYWELL	MCD + PARTNERS	KEMET INDUSTRIES
QHSSE PLATFORM	MERCON	AFRO	ACC · BAYTUR
TEPCO	NAMAA ALKHALEEJ	KASRAWY GROUP	ARKAN PALM
CRYSTAL	IDIA	BAGHOUSH	INNOVATE
MUST	MDE	AL-MANARAH	KERMA FARMS

Developers / Main contractors / Consultants / Industrial owners

CREDENTIALS

Professional registration & legal documents.

Original supporting documents reproduced as supplied.



Tax registration

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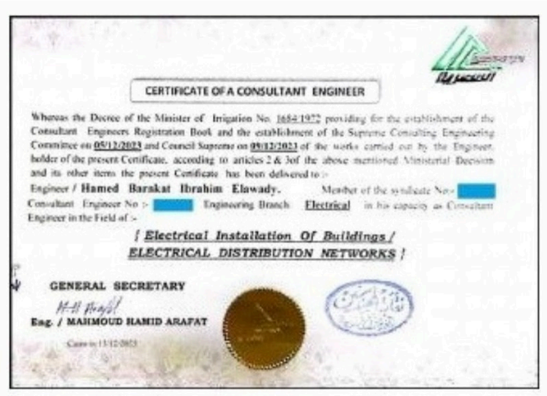

Consultant engineer certificate

English certificate



Consultant engineer certificate

Original Arabic certificate

Registration with the Egyptian Syndicate of Engineers and tax documentation for the practice’s engineering consultancy activities.

CONTACT

Your next project. A clear starting point.

Share the location, project type, current stage and required disciplines. We will respond with an initial scope.

START A CONVERSATION

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