



Al-Fath Office

ENGINEERING & ENVIRONMENTAL CONSULTING

Company Profile

Al-Fath Consulting Engineering Office & Environmental Studies



Structural & environmental engineering consulting — Design ·
Construction Supervision · Quality Control

Who We Are

Al-Fath Consulting Engineering Office & Environmental Studies is an engineering consultancy with two offices: its head office in Sohag and a second office in New Cairo (Beit El Watan). It is led by Assoc. Prof. Dr. Ahmed Attia Mahmoud Drar and Assoc. Prof. Dr. Ahmed Khaled Abdalla Ahmed. The office brings together structural, sanitary and environmental engineering expertise with a field-tested network of quality-control laboratories serving public and infrastructure projects across Sohag Governorate, alongside quality-control work in Greater Cairo and the new cities.

The office began operating in Sohag in 2019 and started its Cairo operations in 2023. From design through construction supervision to material testing, the office manages the full project lifecycle for government bodies, universities and contracting firms — delivering engineering solutions grounded in academic rigor and hands-on site experience.

2019 **Sohag operations begin**
Head office — Al-Zahraa district, Sohag

2023 **Cairo operations begin**
New Cairo office — Beit El Watan

Vision

To be Upper Egypt's trusted engineering partner for infrastructure and environmental projects, recognized for technical excellence and reliable quality control.

Mission

To deliver structural, sanitary and environmental engineering services — design, supervision and testing — that meet the highest standards of safety and quality for every client.

Values

Technical integrity · Field-verified quality · Academic depth applied to real projects · Responsiveness to public-sector partners

The Office in Numbers

36+

Decent Life (Haya Karima) projects

13

Quality-control laboratories

50+

Field supervision engineers

2019

Year founded

Core Work Areas

Structural design & supervision · Sanitary & environmental engineering · Soil & foundation studies · Quality control & material testing · Land surveying — delivered across Sohag Governorate's centers.

Leadership



Assoc. Prof. Dr. Eng. Ahmed Attia Mahmoud Drar
General Manager

17+

Years of experience

30+

Published papers

Academic Qualifications

- PhD in Engineering — Hokkaido University, Japan (2016)
- MSc in Civil Engineering — Assiut University (2012)
- BSc in Civil Engineering — Assiut University (2007), ranked first in department

Syndicate Registration & Specialization

Consultant Engineer — Design of Concrete Structures, Egyptian Engineers Syndicate — Consultant membership No. 515/34, engineering register No. 7333/1.

Professional Experience

- Associate Professor, Faculty of Engineering, Sohag University (2016 – present)
- Engineering Consultant to the Governor of Sohag (2019 – 2024)
- Head of the Engineering Consulting Office, Sohag University (2016 – present)
- Supervised and consulted on 200+ engineering projects

Leadership



Assoc. Prof. Dr. Eng. Ahmed Khaled Abdalla Ahmed
Chief Operating Officer (COO)

20+

Years of academic & professional experience

1

Registered US patent

Academic Qualifications

- PhD in Environmental Engineering — New Jersey Institute of Technology (NJIT), USA (2017); dissertation on water purification using nanobubble technology
- MSc in Civil Engineering — Assiut University (2010); thesis on chlorine modeling in drinking-water networks
- BSc in Civil Engineering — Assiut University (2006)

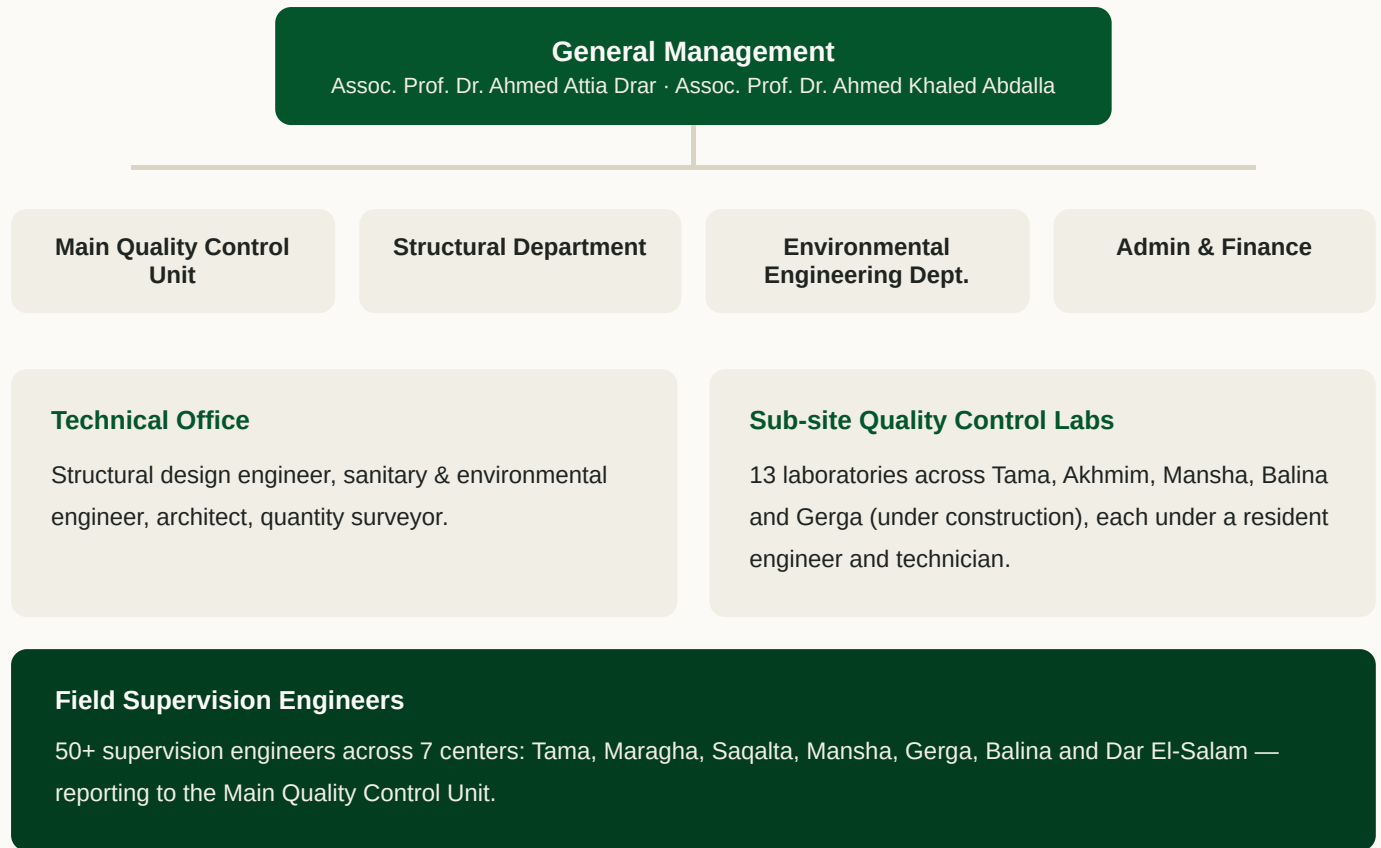
Syndicate Registration & Specialization

Consultant Civil Engineer (Hydraulic Design of Water Supply & Sanitation Networks), Egyptian Engineers Syndicate — membership No. 1045/32, engineering register No. 59113908, consultant No. 1/7189. Specialist in water purification technologies, wastewater treatment and environmental studies.

Professional Experience

- Associate Professor, Faculty of Engineering, Sohag University (2023 – present); Assistant Professor (2018 – 2023)
- Director, Engineering Consulting & Development Services Center, Sohag University (since March 2024)
- Engineering Consultant to the Sohag Drinking Water & Sanitation Company (since 2019)
- Holder of a registered US patent in nanobubble water treatment technology
- 20+ scientific papers published in peer-reviewed international journals

Organizational Structure



Engineering & Consulting Services



01

Sanitary & Environmental Engineering

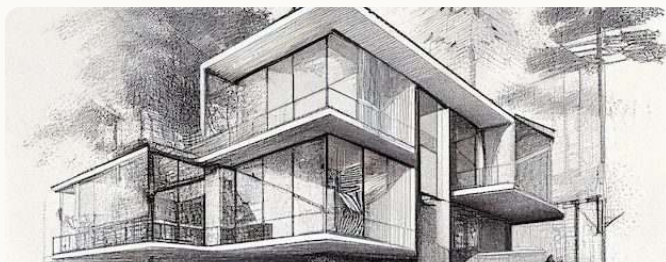
Design and construction supervision of drinking-water and sanitation networks and treatment plants.



02

Irrigation & Water Bodies Engineering

Design and supervision of irrigation networks, canals, drains, culverts and hydraulic structures.



03

Structural & Architectural Design

Design and supervision of private structures, public buildings, towers and residential buildings, with full working drawings.



04

Soil & Foundations

Soil boring works, geotechnical reports, foundation design and dewatering works.



05

Quality Control & Material Testing

Managing a network of field laboratories for testing concrete, soil and construction materials.



06

Land Surveying

Topographic mapping and longitudinal / grid leveling surveys.

Project management and construction supervision accompany every service above, from the study phase through final handover.

Laboratories & Quality Testing



Field soil boring and site investigation works — Sohag



Concrete cube test molds



Sample curing tanks

Test Types

Concrete cube compression · Reinforcement steel tensile testing · Proctor test for soil compaction · Sieve analysis of aggregates · Core Test and Schmidt Hammer · Concrete mix design

Lab Locations (13 Labs)

Main lab in Sohag · Tama center (2 labs) · Akhmim center (2 labs) · Mansha center (2 labs) · Balina center · Gerga center (under construction)

Field Quality-Control Laboratories

Photos from the office's field laboratories, equipped to test concrete, soil and construction materials at Decent Life (Haya Karima) project sites across Sohag Governorate.



Field lab set-up — compression machine and testing tools



On-site field laboratory



Cube compression testing machine



Slump and aggregate testing tools



Sample curing room



Sample storage units



Concrete cube curing tank

Soil Boring & Geotechnical Investigation

The office is authorised by the Egyptian Armed Forces to carry out soil borings and prepare soil and foundation reports for Decent Life projects in Sohag.



Boring rig on a project site



Borehole drilling on site



Borings inside a government site



Boring crew at work



Borings in a new residential area



Crawler-mounted boring rig

Track Record — Infrastructure & Public Facilities

Decent Life Initiative (Haya Karima) — under Egyptian Armed Forces oversight

- 36+ projects across Tama, Maragha, Saqalta, Mansha, Gerga, Balina and Dar El-Salam centers: government and agricultural service buildings, and youth & sports facilities.
- New Akhmim Rehabilitation Center, capacity 20,000 — Ministry of Interior.

Public Buildings

- El-Foad International Language School, Sohag — full structural design.
- 8 fire stations across the governorate's cities.
- 5 urban markets.
- 7 multi-story parking structures.

Bridges & Roads

- Al-Thaqafa Bridge, Sohag — construction supervision.
- 3 bridges on Al-Kasra Road, Gerga center — structural design and quality control.
- Pedestrian bridge over the railway line, Mansha center.

Cairo Projects

- EGECO — quality-control testing works in 10th of Ramadan City.

Structural Supervision — Decent Life Buildings

The office supervised the construction of 36+ projects under Armed Forces oversight within the Decent Life initiative in Maragha, Tama, Mansha, Balina, Akhmim and Dar El-Salam.



Agricultural services complex



Services building — El-Ahaywa Gharb



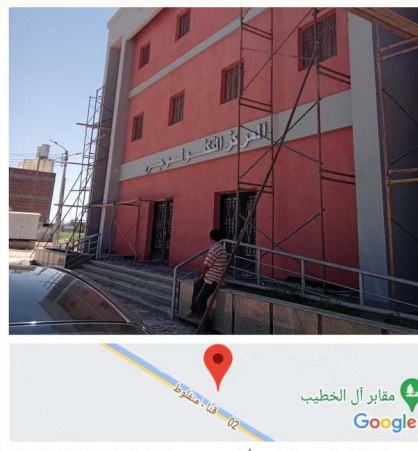
Services building — Tama



Services building — Awlad Salem, Dar El-Salam



Boundary wall and entrance



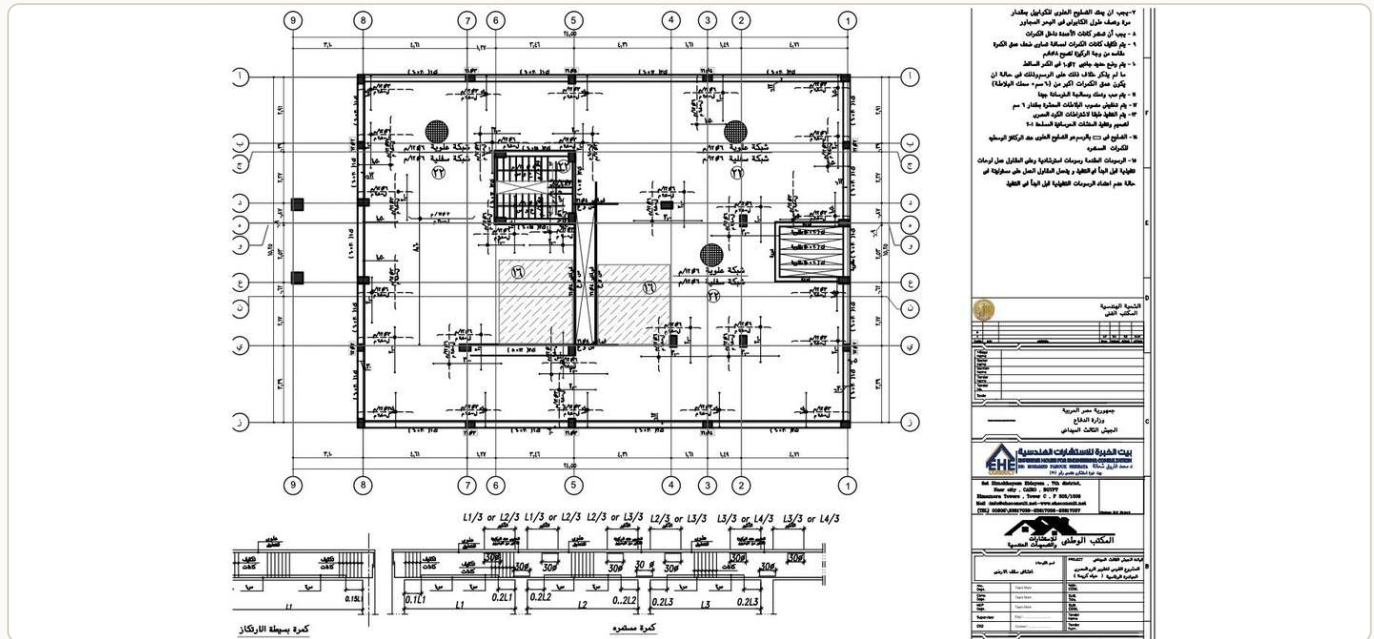
Services building — Dar El-Salam



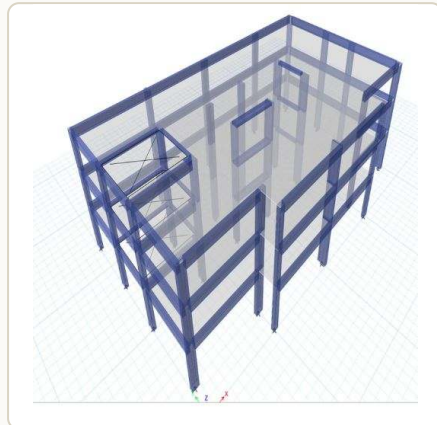
Services building — El-Ahaywa Gharb, Akhmim

Structural Design — Decent Life Buildings

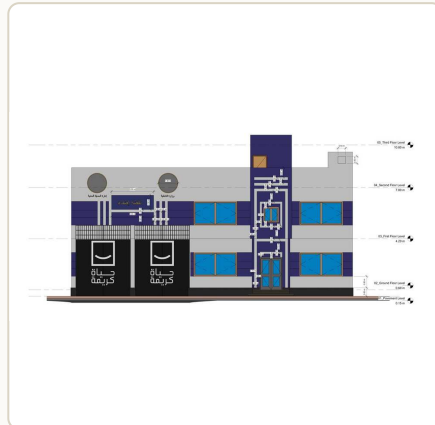
Samples of structural design, analysis and working drawings for initiative buildings, produced with modern structural-analysis software.



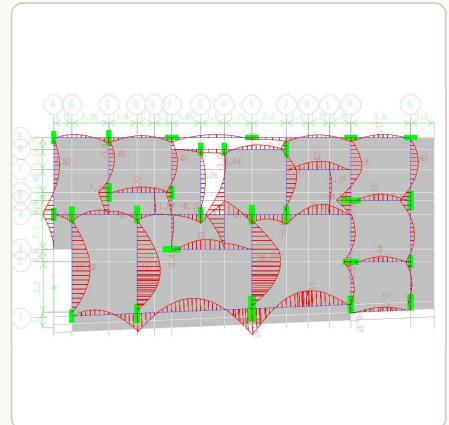
Working drawing — floor plan



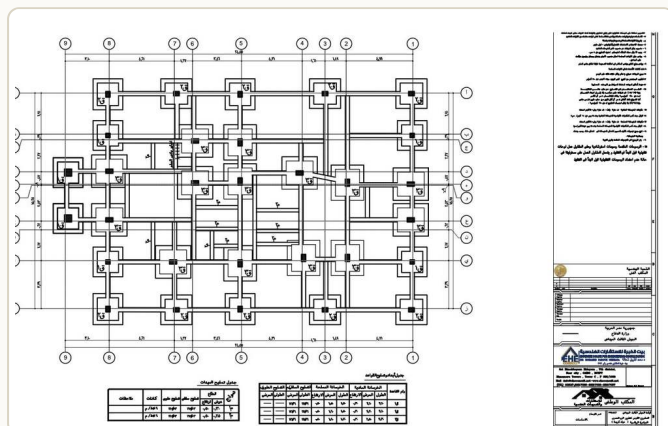
3D structural analysis model



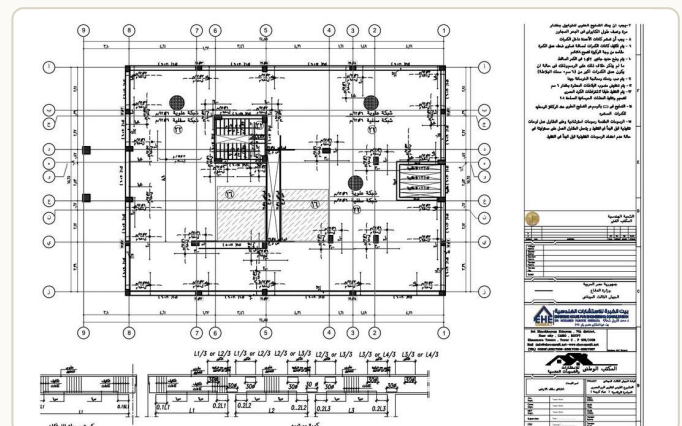
Architectural elevation



Ground-floor plan



Slab analysis results



Columns and footings layout

General Government Services Administrative Building — Sohag

Design and construction supervision of the General Government Services Administrative Building in Sohag, from structural frame through interior finishes and handover.



The completed building



Citizen service hall



Office interior finishes



Official site inspection



Officials visiting the building

New Akhmim Correctional & Rehabilitation Center

Construction supervision of the New Akhmim Correctional & Rehabilitation Center — Ministry of Interior, capacity 20,000.



Aerial view of the center



Main entrance



Aerial view of the buildings



Center gate



General site layout

Full structural design of El-Foaad International Language School, and design and supervision of 8 fire stations, 5 urban markets and 7 multi-storey car parks across Sohag.



El-Foaad International School · 8 fire stations · 5 urban markets · 7 multi-storey car parks

Track Record — Water, Sanitation & Environmental Studies

Water Supply & Sanitation — Decent Life Initiative

- Tama center — drinking-water networks and stations, with Ibrahim Khalifa and Espectra companies.
- Sawamaa Sharq water treatment plant, Akhmim — World Bank funded, executed by Espectra.
- Maragha center — sanitation works, with El-Reda company.
- Mansha center — sanitation networks, with El-Hedy El-Nabawy and Red Sea companies.
- Balina center — water networks and sanitary facilities, with Kayan company.
- Saqalta center — drinking-water works, with Ibrahim Khalifa company.

Environmental Studies

- Preparation of environmental impact assessments for water, sanitation and public-facility projects.
- Design studies for wastewater treatment plants and evaluation of their operational efficiency.
- Technical consulting on water-purification and wastewater-treatment technologies, drawing on Assoc. Prof. Dr. Ahmed Khaled's specialization in this field.

All water and sanitation projects are delivered under the Sanitary & Environmental Engineering department of Al-Fath Office, in direct coordination with the Sohag Drinking Water & Sanitation Company and the relevant funding and executing bodies.

Infrastructure Construction Supervision

Supervision of drinking-water and sanitation networks and plants under the Decent Life initiative in Sohag.



Laying main pipelines



Clarifiers at a treatment plant



Valve installation



Reinforcement works



Plant ancillary buildings



Station building



Manhole construction

Samples of hydraulic and structural designs and working drawings for water and sewer networks and their structures.



Track Record — Water & Sanitation Design (1/3)

4

Village sewer networks

4

Lifting stations

3

Force mains

Decent Life Initiative — Sewer Networks (Assiut)

- Sewer network, Al-Tawabiya village — Al-Fath Center, Assiut
- Sewer network, Naga Gezira Gao village — Badari Center, Assiut
- Sewer network, Al-Kom Al-Ahmar village — Badari Center, Assiut
- Sewer network, Al-Masoudi village — Abu Tig Center, Assiut

Sewage Lifting Stations (Assiut & New Valley)

- Lifting station, Naga Gezira Gao — Badari, Assiut
- Lifting station, Al-Tawabiya — Al-Fath Center, Assiut
- Lifting station, Sheikh Marzouq — Farafra Center, New Valley
- Lifting station, Imam Ali bin Abi Talib — Farafra, New Valley

Force Mains (Replacement & Renewal)

- Force main from Darnaka sub-station to the World Bank main lifting station, with valves and chambers
- Force main from Faryal sub-station to Al-Baraka main station
- Force main from Nazlet Abdallah sub-station to the World Bank main station

Technical Reports & Other Works

- Technical report on groundwater-control (dewatering) design for the sewage completion project — Saqalta, Sohag (owner: National Authority for Drinking Water & Sanitation)
- Administration building, toilets, boundary wall and a ship-wastewater ditch at a river dock, connected to the public sewer

Track Record — Water & Sanitation Design (2/3)

181

Villages reviewed

+22

EGP billion in projects

5

Aswan projects

Aswan Governorate Projects

- 450 mm drinking-water line between Fatira, Daraw and Kom Ombo stations — hydraulic, mechanical & structural design (EGP 7.25 M)
- Upgrading and capacity increase of Daraw water purification plant (EGP 4.435 M)
- Expansion of the natural oxidation-pond wastewater plant — Kalah El-Gebel (EGP 9.1 M)
- Drinking-water feed and irrigation network — Al-Harbyab village (EGP 3.05 M)
- Integrated sewage project: networks, lifting stations, force main and treatment plant — Al-Harbyab (EGP 6.2 M)

Review & Approval — Decent Life, Sohag

- Review and approval of drinking-water and sanitation extension projects for 181 villages, worth over EGP 22 billion
- Technical report on water around the Benho culvert — Sohag–Maragha–Tahta–Talihat road upgrade (38 km)

Sohag University

- Farm water force main — New Sohag University
- Design and BoQ to complete water and sewer networks — New Sohag University
- Water and sewer connections for the Faculty of Industrial Education
- Specifications, drawings and BoQ for the underground fire network of the old campus
- Sewer network and collection tank for low buildings with pumped lifting
- Studies, specifications and drawings for drinking fountains on campus

Other Sohag Projects

- Sanitary drainage design — Umm Al-Taboul village, Balina
- Sanitary design for social insurance buildings — Dar El-Salam
- Inspection and resolution of the sewer problem on Al-Sharif Street, Sohag

Track Record — Water & Sanitation Design (3/3)

Government Buildings — Design & Follow-up

- Al-Sharq building — Sohag Governorate
- Market building — Sohag Housing Directorate
- Al-Kawthar health unit — Housing Directorate
- Railway police annex building — Sohag

Irrigation & Waterways

- Canal-lining follow-up and soil reports for Al-Huwaiti and Al-Ghawanim canals — Sohag

Other Sanitary Designs

- Drinking-water distribution networks for villages in Sohag and Assiut and New Sohag University
- Wastewater collection networks for several villages and Sohag University
- Olympic swimming pool design
- Plumbing systems for hospitals, towers and buildings
- Resolving non-compliant effluent at a carpet-washing factory and designing its treatment system
- Water supply and wastewater system for a poultry farm

The office's Sanitary & Environmental Engineering department covers the full project cycle: hydraulic studies, structural and electromechanical design, BoQs and specifications, and construction follow-up.

Clients & Partners

Government Bodies

- Egyptian Armed Forces
- Sohag Governorate
- Ministry of Interior
- Sohag University
- Holding Company for Water & Wastewater
- Sohag Drinking Water & Sanitation Company

Contracting Partners

- Hassan Allam Construction
- Ibrahim Khalifa Contracting
- Espectra
- Kayan Contracting
- El-Reda Contracting
- El-Hedy El-Nabawy
- Red Sea Contracting
- Wadi El-Nile
- Misr Foundation
- Gabalco
- EGECO

Al-Fath Office acts as technical consultant to owner entities and supports contracting firms on quality control and engineering supervision, through its network of laboratories and field engineers spanning Sohag Governorate's centers.

Office Approvals & Authorisations

Official documents issued to the office by national authorities, approving it for quality-control works and soil reports on Decent Life projects in Sohag.



Approved by the Armed Forces Engineering Authority for quality-control works on Decent Life projects.



Approved by the Third Field Army command for soil and foundation reports.

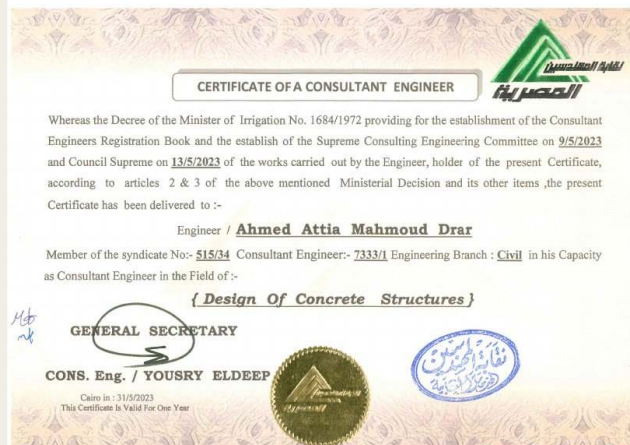


Holds the security clearances required to work with sovereign bodies.

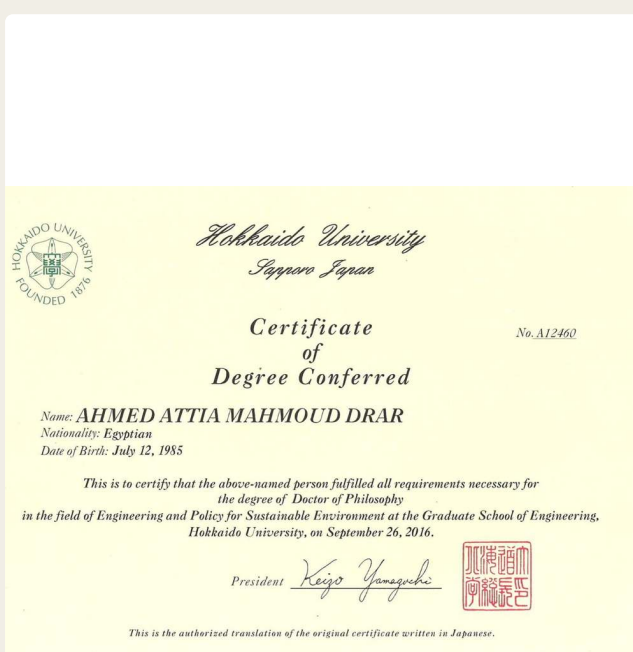
Certificates — Assoc. Prof. Dr. Ahmed Attia Drar, General Manager (1)



Consultant Engineer certificate (Arabic) — Concrete Structures,
No. 515/34

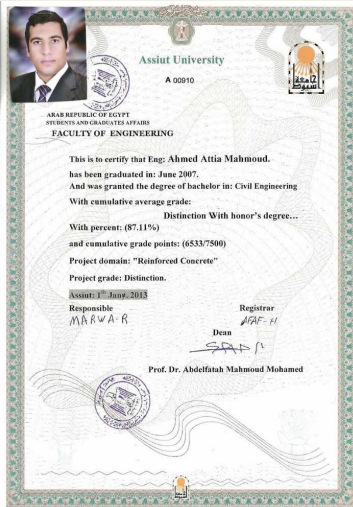


Consultant Engineer certificate (English)



PhD degree — Hokkaido University, Japan (2016)

Certificates — Assoc. Prof. Dr. Ahmed Attia Drar (2): Degrees & Conferences



BSc Civil Engineering — Assiut University (2007), Distinction with Honours, ranked first



MSc Civil Engineering — Assiut University (2012)



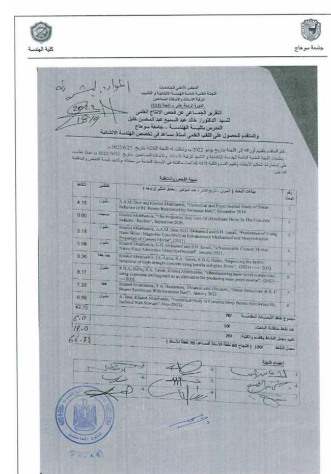
Supreme Council of Universities PhD equivalency



Certificate of Conferment of Doctorate — Hokkaido University



2nd International Conference on Innovative Building Materials, IBMC 2018 — certificate of appreciation
Al-Fath Consulting Engineering Office & Environmental Studies

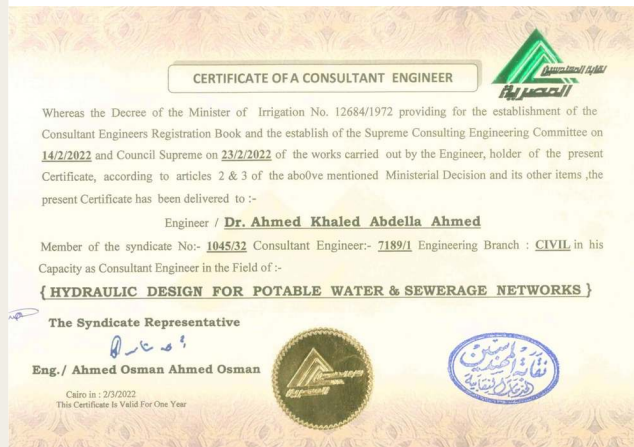


IBMC 2018 final paper acceptance letter

Certificates — Assoc. Prof. Dr. Ahmed Khaled Abdalla, Chief Operating Officer (COO) (1)



Consultant Engineer certificate (Arabic) — Hydraulic Design of Water & Sewer Networks



Consultant Engineer certificate (English)

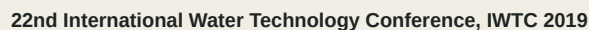
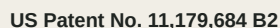


PhD degree — New Jersey Institute of Technology (2017)



Supreme Council of Universities PhD equivalency

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ADDRESSES

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