

A private consultancy firm of designers, planners, engineers, consultants, strategists and technical specialists offering a broad range of professional end-to-end and integrated engineering services. Through our work, we aim to make a positive difference to different communities.

WE SHAPE A BETTER WORLD.

Founded in 1988 with an initial focus on HVAC engineering, IHCG first came to the world's attention with the redesign of the Hot Water System at Sofitel El Gezira on 1991. IHCG has since grown into a multi-disciplinary organisation. Its work, such as the Kempenski Royal Maxim Hotel on 2011 located in Cairo. We develop and influence our design based on foresight, sharing ideas, and listening, to help reach significant new ideas to life and engage clients and stakeholders in meaningful conversations about change.

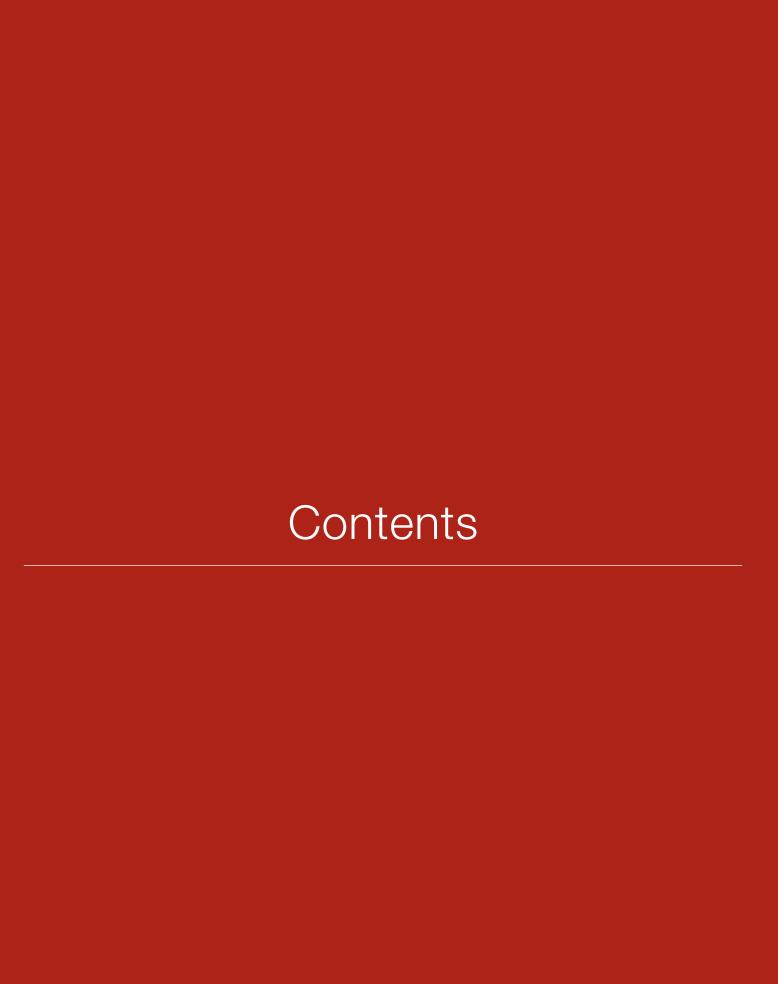
Contacts

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"Our beliefs based on creating and inspiring the teamwork environment. Combining our knowledge, talent, and experience, will definitely value our work."



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Chairman's Word

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Market Sectors

Urban Design, Infrastructure, Transportation Engineering, Buildings, Healthcare, Oil & Gas, Industrial & Power

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Mission

We integrate most of engineering and architecture disciplines at one place to deliver exceptional design ideas and solutions with competitive prices, and to help make any project pass with ease, for our Clients in the public and private sectors. The science of engineering and sustainable design, together with construction management and supervision services gives our Clients better future for their projects.

Vision

We see each client as an added value, and every employee as an asset. Our strategy is to be always developed offering latest technology through comprehensive and integrated multidisciplinary services to add values to our Clients. We always have the desire to be one of the top engineering and architecture firms in the MEA Region.





Chairman's Word

"On 1988, I planed & decided to take the challenge and establish engineering consultancy firm. It passed through deeply and long thinking because my objective was not to establish a repeated traditional firm but to be a completely different with new taste of engineering design.

To achieve this target I defined the factors that can drive the firm to its success:

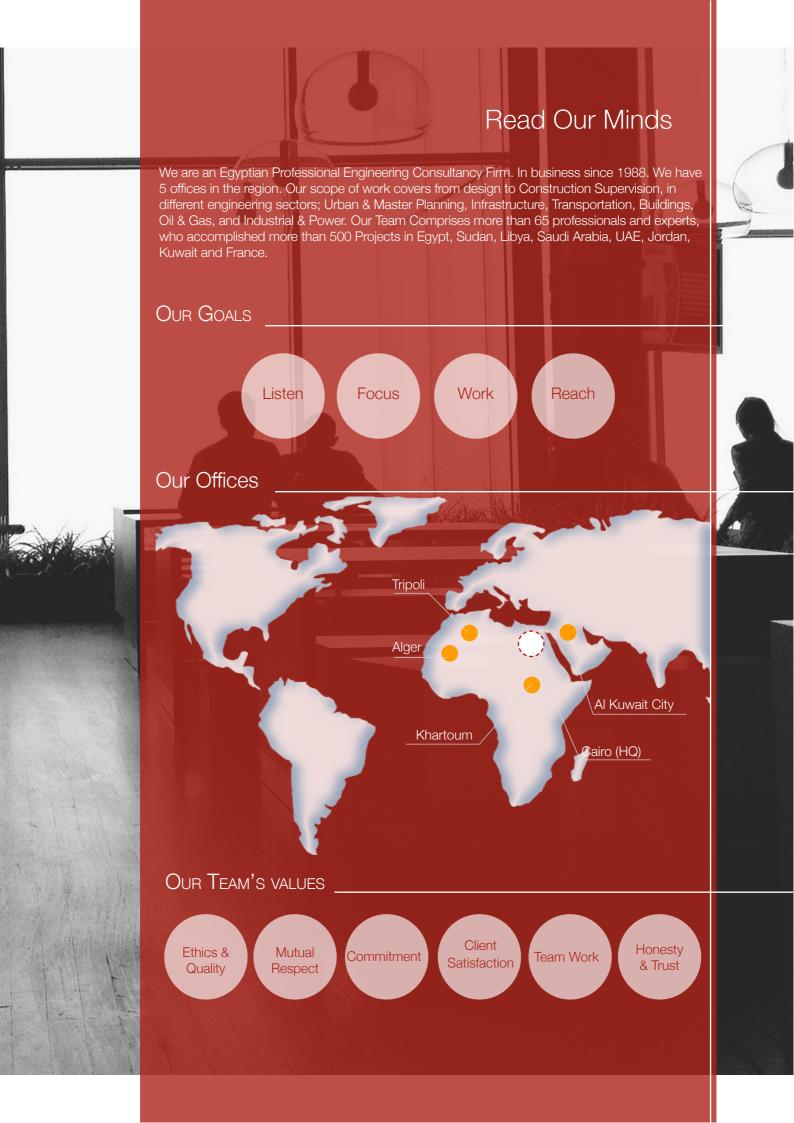
- 1- The firm strategy must be how to create Trust and Honesty to build beneficial sustainable long term relationships with our clients;
- 2- To make the firm Strong & Stable by applying the concept of employee ownership;
- 3- Our professionals must be creative, award-winning, environmentally and socially conscious, and keenly aware of our clients needs.

Since the date stated above, the born of IHCG, our performance was exciting, dynamic and innovative, and our policy was how to always add values to our workforce by welcoming new talent and experienced professionals with the same enthusiasm. Performing innovative, client oriented, high quality and sustainable work lead us to achieve what we were thinking of."

Ibrahim Elhayawan IHCG Chairman

Ibrahim ELHayaman





IHCG Timeline started with

1988

1990-91

Founding IHCG with HVAC and Electrical services

- 1st project in Saudi Arabia. The Extension of Oberoi El Madena Hotel.

- IHCG called among int. firms to solve the Hot Water System problems of Sofitel El Gezira Hotel, Cairo

2006

2005

Provide Infrastructure design works for Misurata City, 50 Million sq.m, in Libya, with Atkins UK

- Urban Planning of Um Barouna Coastal City, 1.8 Million sq.m, Sudan.
- Design the MEP and ID of Al Quds Mixed-Use in Alger, Algeria

2009

2011

Awarded the international competition of the Urban Planning of Zeralda City. 1.9 Million sq.m

IHCG design the MEP of Kempiniski Royal Maxim Hotel, One of the luxurious 5-Stars Hotel in Cairo

2017

1st project with the EU Delegation, in association with PLANET S.A, Greece. Providing the Monitoring of infrastructure rehabilitation works of 79 Technical Secondary Schools for the Egyptian Ministry of Education

2018

2019

IHCG provides the complete design of a general hospital. The Egyptian German Hospital, 120 bed, and located in Giza, Egypt

IHCG returned to the Saudi Market by providing the Study & Design of 2 roads. The Enhancement and Development of Al Riyadh Road, and The development of Al Emaam Ali Road. Each road is 15km, and they are both located in Al Qatif, Saudi Arabia

1992

IHCG now provides all MEP Services by having the opportunity to design The MEP Services of First Mall in Giza, Egypt. 1995

- Providing professional engineering & architecture services, and designing the 1st project of a commercial building in the Free Zone, Cairo, Egypt.

1999

Opening Khartoum Branch

2004-05

- Opening Alger branch
- Opening Tripoli Branch

2003

- Awarded the int. competition Al Aman City Center Tower of 40 floors Steel Structure, in Khartoum.
- Shop Drawings of Az-Zour Gas Turbine Power Station in Kuwait.

2001

Value engineering the MEP of Sheikh Coast Resort in Sharm El Sheikh (3000 Room)

2013

- IHCG provides the infrastructure of Bait EL Watan area of 4.2 Million sq.m.

- IHCG provides the concept design of Sudan Museum for the Government of Sudan 2014

IHCG provides
Construction Supervision
and Quality Control of
Qasr Compression Gas
Project located in the
West Desert of Egypt

2015

Opening Kuwait branch

2016

IHCG renovated the Meryland Park and Caisno located in the Heart of Cairo in Heliopolis City by designing the MEP and Infrastructure networks 2015

IHCG provide the design of 1000km of Sewer Main and Branch Networks in very challengeable 3 cities in Jordan. South Amman, Ad-Dulayl, and Madaba

& still more to go



Doing professional work = winning great business





Executive Profiles



Ibrahim
Elhayawan
(B.Sc Mechanical)
C.E. Mechanical
CEO



Abdallah Kenawy Vice President (B.Sc of Commerce), MBA CFO



Abdelaal Elhayawan Vice President Corporate Strategy & Business Planning (B.Sc Telecommunication) MBA



Mohamed M.
Nazeef
Vice President
Director of
Architectural Division
(B.Sc Architecture)
C.E. Architecture



Yehia Y. Ezz EL-Din Vice President Design Principal Concrete & Steel Structure Marine & Offshore (B.Sc Civil) - Expert



Tarek I. Sabry
Vice President
Civil, Infrastructure
Director of
Infrastructure Division
(B.Sc Civil)
Ph.D Public Works



Mohamed R. Tantawy Vice President Design Principal Oil & Gas (B.Sc Chemical)



Mohamed Aziz Vice President Director of MEP Division (B.Sc Mechanical) C.E. Mechanical



Mohamed El Turkey Design Principal Concrete & Steel Structure (B.Sc Civil) (MS.c Structural)



Ayman
Elhayawan
Vice President
Projects Department
Head
Design Services
(B.Sc Architecture)



Tamer Fawzy
Projects Manager
Construction
Services (B.Sc Civil),
MBA, PMP



Rasha Elhayawan Vice President HR Manager (B.Sc of Law)



Ismail Ali Vice President Branch Manager Kuwait (B.Sc Electrical)



Hassan Salah Vice President Branch Manager Sudan (B.Sc Civil), MS.c Civil



Hossam Hamdi Design Principal Electrical, MEP Division (B.Sc Electrical) C.E. Electrical



Hamdy Saad
Design Principal
Telecommunication,
MEP Division
(B.Sc
Telecommunication)
C.E. Electrical



Magda Ibrahim
Design Principal
HVAC,
MEP Division
(B.Sc Mechanical)
C.E. Mechanical



Mohamed H. Aly Design Principal Mechanical, MEP Division (B.Sc Mechanical) MS.c Mechanical



Ibrahim Mahfouz
Healthcare Planning
Principal
Architectural Division
(B.Sc Architecture)
PRMG



Ahmed Elsherif
Design Principal
Biomedical
Equipment
Architectural Division
(B.Sc Electrical)
C.E. Electrical



Mohamed Ramadan Design Principal General Buildings Architectural Division (B.Sc Architecture) C.E. Architecture LEED AP BD+C



Mona Khafagy
Design Principal
Roads and Airports
Department Head
Infrastructure Division
(B.Sc Civil), PE
MS.c Highways &
Airports



Omar Moussa
Design Principal
Bridges
Infrastructure Division
(B.Sc Civil), PEng
Ph.D Bridges
Construction

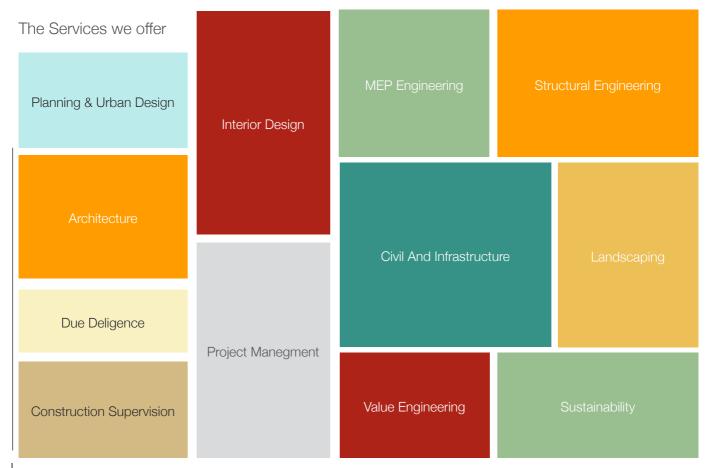


Mohamed Khairy
Design Principal
Power Generation
& Transmission Line
Department Head
Infrastructure Division
(B.Sc Civil)



FIELDS OF SPECIALIZATION

At IHCG we offer end-to-end integrated and professional engineering services. We believe that investing in our resources and total responsibility for what we offer will enhance our capabilities and ripen our services. Our competences allow us to connect with one another, involving our experts at every major and minor level, also include our clients' visions to reach a target that satisfies all entities. Thanks to our clients and their cooperation, we were given the chance to provide them with our integrated, high value, and sustainable solutions. We are proud to offer these integrated multidisciplinary services for most of the engineering fields, throughout all project phases starting from studying, planning and design, till the final steps of reporting and delivering the project to the construction phase.





Project Management

Our challenge is how to pass every project with ease, coordinated, and seamlessly integrated from day one and within design quality.

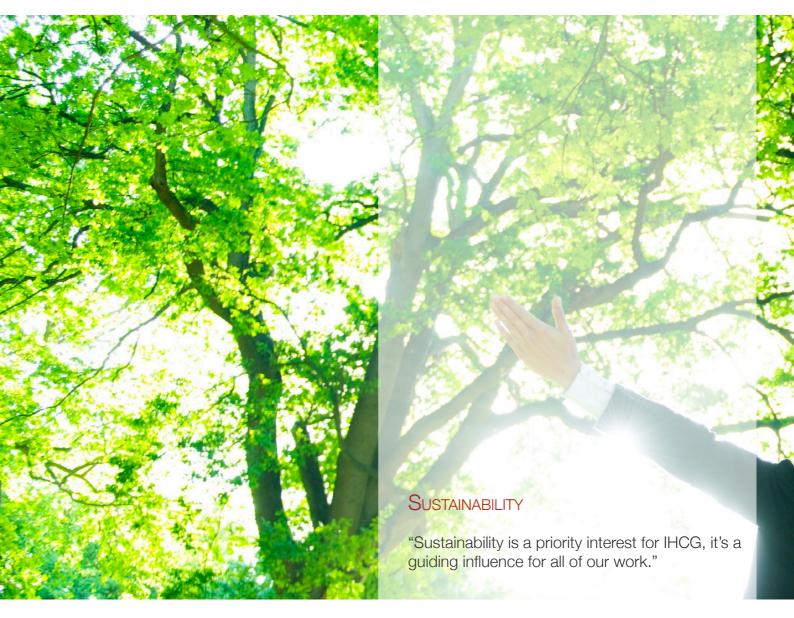
IHCG experts provide comprehensive and integrated engineering services, and all comes at one place. And to make sure of our services delivery on time and within design quality and budget, IHCG understands that project management shall be handled in a professional way to be able to achieve our clients vision.

Project quality of Services (QoS)

At IHCG, to maintain a high quality for our projects, we use a specific project execution plan that help pass any project component with ease throughout the Project Life Cycle. All Project Components must pass through the Project Initiation, Planning, Execution, Monitoring & Controlling, and Closing steps, so we can ensure the project requirements and standards for our clients.

Setting a clear project execution plan, timeline, and setting communication system between all project stakeholders, helps the execution of all project submissions within quality requirements, approved timeline and within budget.



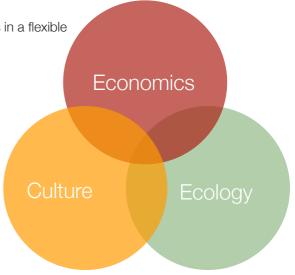


Our Philosophy of Sustainability

IHCG design approach is moving towards sustainability. It is a social challenge that entails urban planning and transport, local and individual lifestyles and ethical consumerism.

it highlights the property of biological systems to remain diverse and productive indefinitely. Sustainability can take many forms from reorganizing living conditions like;

- sustainable cities, reappraising economic sectors (green building, sustainable agriculture),
- work practices (sustainable architecture) using green technologies,
- renewable energy and sustainable fusion power, designing systems in a flexible and reversible manner,
- adjusting individual lifestyles that conserve natural resources.

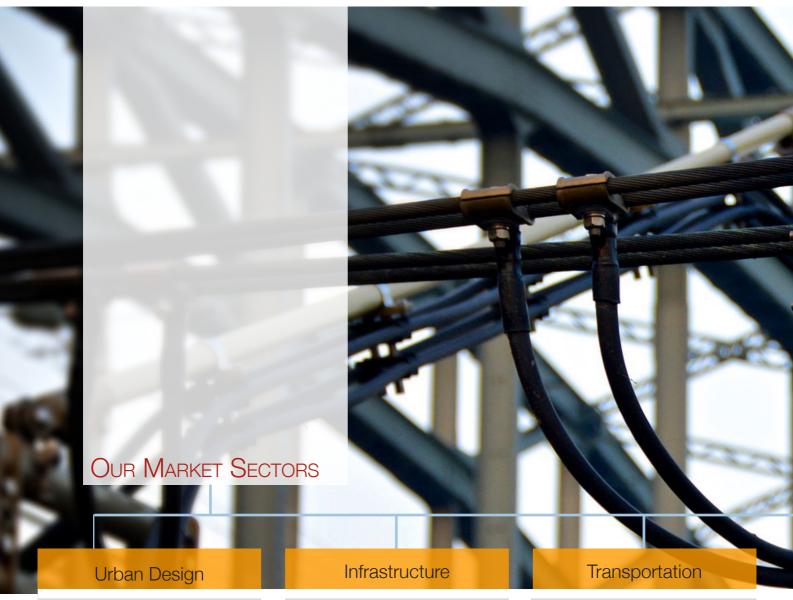




Our Responsibility

We at IHCG uses sustainable development, which includes the three interconnected aspects: ecology, economics, and culture.

At IHCG, we are responsible to address the operational and occupant issues to help develop strategies for reducing costs for our clients while minimizing their environmental impact. We also design high-performance, and sustainable spaces. Our design approach not merely an attitude of how we can design and create a state-of-the-art project, but how can we inspire and motivate our thoughts to a project with a long-lasting architecture, reduce energy and natural resources. At IHCG, we understand that sustainable design plays a powerful role in conserving these resources while achieving energy independence, reducing greenhouse gas emissions, and effectively improving our client's bottom line.



- City Design
- Master Planning
- Landscape Design
- Water & wastewater
- Sewege
- Irrigation
- Fire Fighting
- Electrical
- Telecommunication

- Intelligent Transportation Systems (ITS)
- Roads & Highways
- Transport planning
- Pavement Assessment
- Infrastructure
- Bridges and Civil Structures
- Airports



- Healthcare Facilities
- Hospitality
- Commercial
- Retail
- Mixed-Use
- Education
- Recreational
- Residential
- Banks

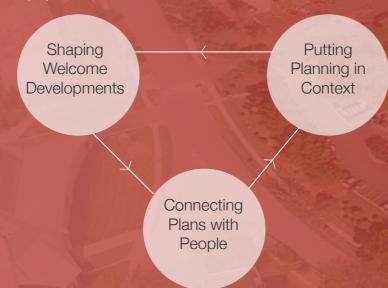
- Piping
- Chemical Terminals
- Petroleum Stations
- Gas Pressure Stations

- Warehouses
- Factories
- Power Stations
- Transmission Lines

Planning & Urban Design

City Design, Master Planning, Landscape Design

Projects Philosophy



- The Museum (Sudan Historical City), Khartoum, Sudan
- Zeralda Touristic Village, 1.9 Million sg.m, Algeria
- Um Barouna City, 1.8 Million sq.m, Sudan
- Tabarak Residential Compound, New Cairo, Egypt
- Council of Ministries Residential Compound, New Cairo, Egypt



Infrastructure

Water & wastewater, Sewege, Irrigation, Fire Fighting, Electrical, Telecommunication

Field of Services

IHCG provides all facets of civil and MEP infrastructure, including water supply and sanitation networks, electrical, telecommunication networks, transportation and Environmental Engineering. IHCG expert team in infrastructure engineering of designing numerous projects, is at the forefront of planning and designing the entire infrastructure projects of any size.

- Main & Branch Sewer Networks, and Household Connections in South Amman, Ad-Dulayl, and Madaba, Jordan, 1000km
- King Salman 3 Universities in 3 cities (El Tur, Sharm Elsheikh, and Ras Sedr), with total land area of 1.3 million m2, Egypt
- Continental Residence Compund, Shek Zaied City, 6th of October, Egypt
- Bait EL Watan City Infrastructure, 420 Hectare, Cairo Egypt
- Borg El Arab Airport, Egyption Company for Airports, Alexandria, Egypt
- Dreamland City, North-East, Cairo, Egypt
- Telephone Networks, capacity 10,000 tel. lines, Qena Governerate, Tiba City, Egypt



Transportation

Intelligent Transportation Systems (ITS), Roads & Highways, Transport planning, Pavement Assessment, Infrastructure, Bridges and Civil Structures, and Airports

Field of Services

Intelligent Transportation Systems (ITS)

Construction
Engineering &
Constructability

Technical Concepts & Modeling

Impact of Traffic

Pavement Assessment

Visual Condition Surveys

Non-Destructive Testing Destructive Testing

Airports

Airfield Design Expertise

Landside Development Specialists

- Study & Design of the Enhancement and Development of Al Riyadh Road, 15km, Al Qatif, Saudi Arabia
- Study & Design of the Development of Al Emaam Ali Road, 15km, Al Qatif, Saudi Arabia
- 75km Internal Roads Network for Bait EL Watan, New Cairo, Egypt

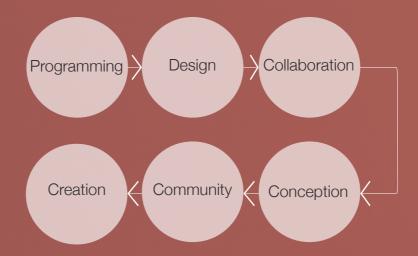


"Together, we work to improve mobility, enhance communities and economic vitality."

Buildings

Hotels & Resorts, Commercial, Retail, Mixed-Use, Healthcare, Education, Recreational, Residential, Banks

Projects Phasing



- Kempinski Royal Maxim Hotel, 5 Stars, New Cairo, Egypt
- Al Amaan City Centre, Khartoum, Sudan
- Maryland Park & Casino, Cairo, Egypt
- City Complex, Khartoum, Sudan
- Al Quds Building, Alger, Algeria
- Nile Grand Plaza, Khartoum, Sudan
- Wahran Complex, Wahran, Algeria
- Wahat Al Khartoum, Khartoum, Sudan
- Maxim Mall, New Cairo, Egypt
- National Gene Bank, Cairo, Egypt



Healthcare Facilities

Healthcare Planning, Healthcare Architecture, Bio Medical Engineering, Structure \ MEP Engineering

Field of Services

Engineering consultancy services for healthcare facilities among the four international healthcare levels

Primary
Healthcare Level

Secondary Healthcare Level Tertiary Healthcare Level Quaternary Healthcare Level

- The Egyptian German Hospital, 120 Bed, Giza, Egypt
- Um Dorman Hospital, 200 Bed, Um Dorman, Sudan
- Al Obayed Hospital, 200 Bed, Al Obayed, Sudan
- Medical Tower, Khartoum, Sudan
- Medical Complex, Khartoum, Sudan
- EL-Hady Charity Hospital, 220 Bed, East Cairo, Egypt



Oil & Gas

Piping, Chemical Terminals, Petroleum Stations, Gas Pressure Stations

Field of Services

Mid-Stream Engineering

Plant Conceptual Design. Front End Engineering Design (FEED) Detailed Engineering Design. Company
Design Basis &
Philosophies

Construction Supervision & Commissioning

Construction

Pre-Commissioning

Commissioning

Startup Phases

HAZOP & HAZID Studies

Production Facilities Utilities

Petrochemical Plants

- Gas Pressure Reduction and Odor Removal Station, Sinai Gas, Qantara, Ismailia, Egypt
- OiLibya Gas Station Alexandria-Cairo Road, Egypt
- Sharofeil Factory for Liquified Petroleum Gas (LPG), Sharkia State, Egypt
- Extension of Alex Chemical Terminal (Alxct) Phase 2, Water Hammer Analysis for Fire Fighting Pipe Network, Alexandria, Egypt



Industrial & Power

Warehouses, Factories, Power Stations, and Transmission Lines

Field of Services

Industrial Plants and Manufacturing facilities are becoming more complex. We listen carefully to our clients from the beginning to understand and address their needs as early as possible to reach the most efficient and economical solution with ease.

Power provision is a key element of infrastructure services, and it forms the basis factor of developments. At IHCG, we provide all engineering services for power stations, sub-stations, and transmission lines.

PROJECTS SAMPLES

- Renovation and Strengthen the Roof of the Transport Workshop, Giza, Egypt
- Oriental Weavers Factories, 10th of Ramadan, Egypt
- Zahratex Factory for Textile, EL Oboor City, Egypt
- Az-Zour Gaz Turbine Power Station, 1000 Mega, Kuwait
- Hoechst Marion Roussel Factory, Cairo, Egypt
- Nichle Chrome Components Factory, 10th of Ramadan City, Egypt, Egypt
- Al Ezz Melt Shop Plant, Sadat City, Egypt
- Al Ezz Steel Rolling Mill Factories No.1 & 2, Sadat City, Egypt











The Egyptian German Hospital - 120 Bed

Client

Al-Hammd Company for Medical & Environmental Services

Project Location

Giza Egypt

Services

Medical Planning
Medical Equipment Planning
Architectural
Interior Design
Structural
MEP
Construction Supervision

Studies

Geotechnical Investigation Topographic Surveys

2 National Al-Rebat University Campus

Client

Ministry of Interior

Project Location

Khartoum, Sudan

Services

Master Planning Architectural



Client

Sidar Co.

Project Location

Village

Zeralda, Algeria

Services

Planning and Studies Urban Planning Master Planning

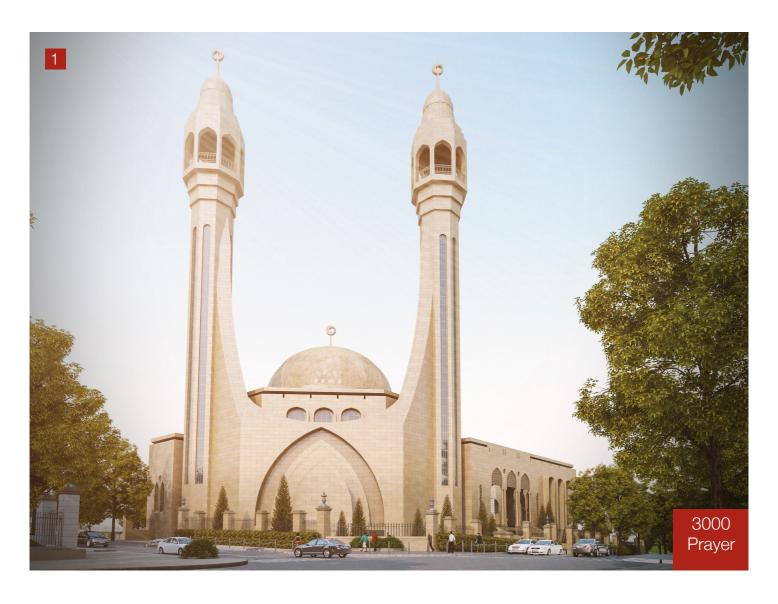
Project Contents

- Luxury Villas
- Semi-Detached Villas
- Semi-Detached Luxury Villas
- Mixed-Use Luxury Towers
- Hotels
- Residential Towers
- Residential Buildings
- Tennis Courts
- Open Air Theater
- Sport Club
- Mall & Pavilions
- Services





Zeralda Touristic Village located at the northern side of Algeria, faces the Mediterranean-Sea. It has a land area of 1.9 million sq.m, and features a marina, and flying bridge.





OiLibya - Kom Osheem Gas Station

Client

Oilibya Misr Co.

Project Location

Kom Osheem, Egypt

Services

Civil Works Architectural Structural MEPI

1 Al-Azozab Mosque

Client

Confidential

Project Location

Al-Azozab Village, Khartoum, Sudan

Services

Architectural Structural MEP Interior Design



City Complex

Client

Ministry of Interior

Project Location

Khartoum, Sudan

Services

Master Planning Architectural, Structural, MEP, Interior Design Landscape



Gas Pressure Reduction Stations

Client

Many Clients

Project Location

Various locations around Egypt

Services

Civil Works MEP Architecture Construction Supervision



Client

Sudan Government

Project Location

Khartoum, Sudan

Services

Planning and Studies Master Planning

The Architecture Design of The Museum is considered to have a new design taste. The idea of the Museum came by IHCG, helping Sudan for development. IHCG provide land selection, studies of project components, Urban and Master Planning.

A giant historic city on 2 million sq.m, gathering in one place various museums telling the story of the origin of the universe & relating it to the development of ancient human civilizations over thousands of years BC, all the way into the modern era encompassing all elements required to establish a civilized society. It also includes varieties of museums like Earth, Human, Plants, and Effects Museum, etc. It will cover all elements that serve the community.





Project Contents

- Different Museums from Different Eras
- Different Gardens (Animals Marine Organisms - Plants)
- Hotels
- Health Centers
- Commercial Markets
- Mosques

- Open Air Halls
- Conference Halls
- River Stations
- Industrial Rivers
- Residential Area
- Different Resturants
- Airport



1 Kempinski Royal Maxim Hotel 5 Stars

Client

Karrar Group

Project Location

New Cairo, Egypt

Services

MEP



2 Bait EL Watan Infrastructure Networks – 420 Hectare

Client

Ministry of Housing

Project Location

New Cairo, Egypt

Services

Water Supply

Sewer

Electrical

Telecommunications

Roads



Client

Social Security Investment Authority (SSIA)

Hotel Apartments, and Cinema

Project Location

Khartoum, Sudan

Services

Architectural Structural MEP Interior Design



A 40 floor Steel Structure design.

Al Amaan City Centre is a high rise building, located in the heart of Khartoum, the capital of Sudan. Has a plot area of 8,875 sq.m, and foot print of 6,175 sq.m, and built-up are of 162,470 sq.m. The mixed-use centre has spaces for retail, office building, hotel apartments, and cinema.



1 EL TUR KING SALMAN UNIVERSITY - 86.1 Hectare

Client

Engineering Authority for Armed Forces

Project Location

El Tur, Egypt

Services

Roads Network Design Water Supply Network Drainage Network Irrigation Network Fire Fighting Electrical Network Telephone & Data Networks

2 Qasr Compression Gas Project

Client

Khalda Petroleum Co.

Project Location

Western Desert, Egypt

Services

Construction Supervision Quality Control





Oriental Weavers Factories

Client

Oriental Weavers Co.

Project Location
10th of Ramadan City, Egypt

Services

Master Planning Architectural

Diesel Tower Residential Apartments - 20 floors

Client

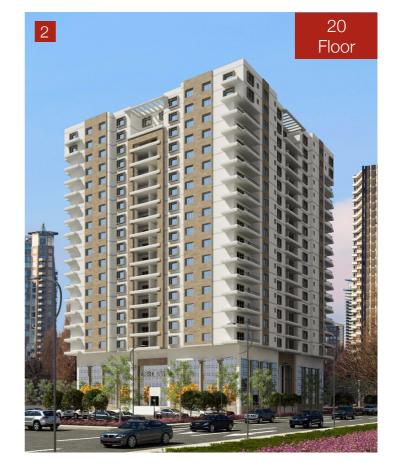
Diesel Co.

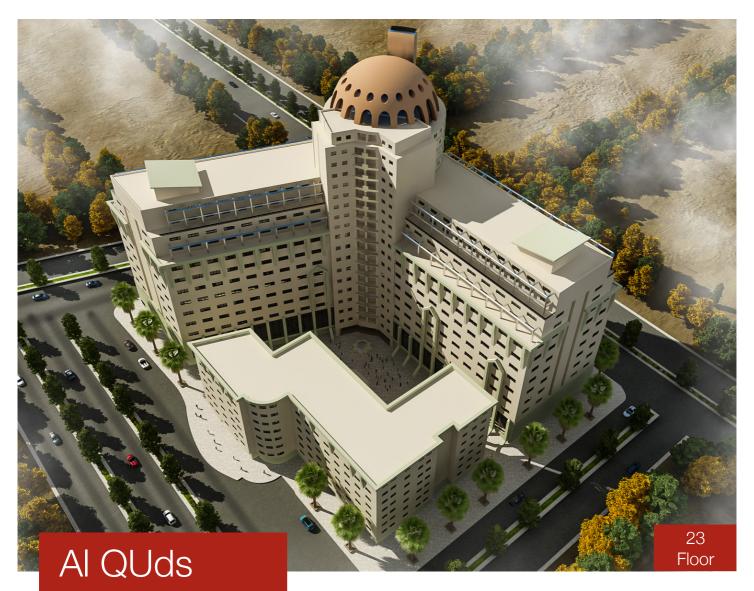
Project Location

Khartoum, Sudan

Services

Architectural Structural MEP Interior Design





Building

5 Stars Hotel Botoil Office

5 Stars Hotel, Retail, Office Building, Residential Appartments

Client

Sidar, Co.

Project Location

Alger, Algeria

Services

MEP

Interior Design



Al Kods mixed use located in Alger City. The mixed-use building has a plot area of 13,528 sq.m, and foot print of 10,860 sq.m, and built-up of 120,414 sq.m in 23 floors. The mixed-use building has spaces for retail, office building, and residential.





1 Maryland Park & Casino

Client

Magic Dreams for Real Estate Investment Co., UAE

Project Location

Heliopolis, Cairo, Egypt

Services

MEP, and Infrastructure Networks

Niyala Hotel - 4 Stars - 120 Room

Client

Ministry of Interior

Project Location

Niyala, Sudan

Services

Architectural, Structural MEP, Interior Design



24 Floor

Study & Design of the Enhancement and Development of Al Riyadh Road – 15km

Client

Municipality of Qatif Governorate

Project Location

Al Qatif, Saudi Arabia

Services

Master Plan Roads Design Architectural Landscaping Infrastructure Networks

Analysis/ Studies

Transportation and Traffic Analysis Environmental Impact Assessment

Wahran Complex - 24 floor

Client

Sidar, Co.

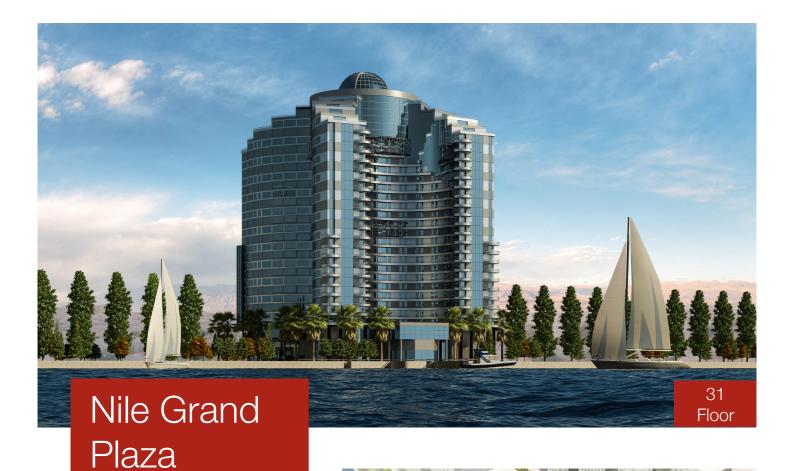
Project Location

Wahran, Algeria

Services

Architectural, Structural MEP, Interior Design





5 Stars Hotel, Office Building, and Retail

Client

Ministry of Interior

Project Location

Khartoum, Sudan

Services

Architectural Structural MEP Interior Design



Nile Grand Plaza is a mixed-use building, located in Khartoum City. The mixed-use building has a plot area of 8,900 sq.m, and foot print of 4,585 sq.m, and built-up of 113,980 sq.m in 31 floors. The mixed-use building comprise 5-stars hotel, retail spaces, and office building, and in-river restaurant.



1 National Gene Bank

Client

Agriculture Research Centre

Project Location

Giza, Egypt

Services

Architectural Interior Design Structural MEP

2 Medical Tower

Client

Social Security Investment Authority (SSIA)

Project Location

Khartoum, Sudan

Services

Medical Planning Medical Equipment Architectural Structure MEP Interior Design





Oil Libya Office Building 9 Floors

Client

Oilibya Misr Co.

Project Location

New Cairo, Egypt

Services

Architectural Structural MEP Interior Design



Client

Kuwait Government

Project Location

Azzour, Kuwait

Services

Civil Works







3 Sudan Cotton Office Building

Client

Sudan Cotton Co.

Project Location

Khartoum, Sudan

Services

Architectural, Structural MEP, Interior Design

4 Um Dorman Hospital – 200 bed

Client

Social Security Investment Authority (SSIA)

Project Location

Um Dorman, Sudan

Services

Medical Planning Medical Equipment Planning





"Is committed to the quality of every step of the way, driving innovation to achieve the timely, efficient, and costeffective delivery of programs."



