

Ismail Khonji Associates

Engineers and Architects



33 Years of Engineering Excellence

Ismail Khonji Associates

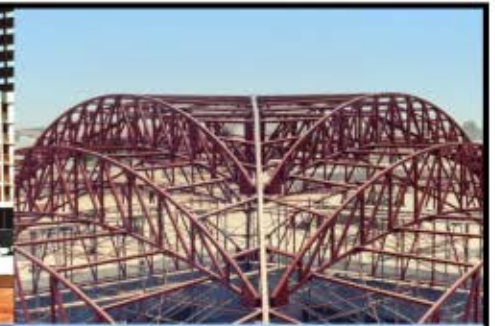
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Principal

Ismail Khonji BSc (Eng) (Lon), FICE, FStructE







Ismail Khonji Associates (IKA) was founded in Bahrain in 1984 by its Principal, Ismail Khonji, a Fellow of both the UK Institution of Civil Engineers and the Institution of Structural Engineers. Prior to establishing the consultancy Ismail Khonji worked with international consulting engineers based in London, gaining wide experience on a variety of major projects throughout the world.

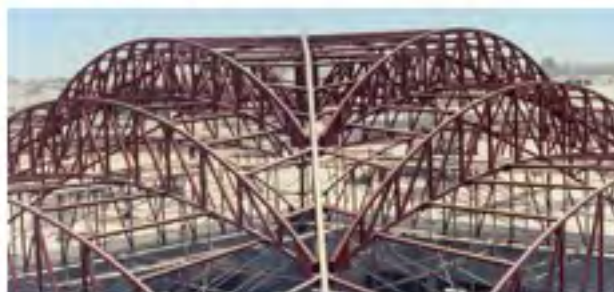
The Consultancy is able to provide a broad range of high quality services, with particular expertise in the fields of structural engineering and concrete deterioration and repair. Emphasis is always placed on finding practical and cost-effective ways of solving individual problems and on providing a thorough and efficient supervision of construction works.

A joint venture with the leading US/ UK consulting engineers Montgomery Watson Harza (MWH), registered in Bahrain under the name of **MWH Khonji**, is able to offer services in the fields of sewerage, sewage treatment, environmental engineering and water supply.



Services Available

- Feasibility studies
- Design of civil works
- Architecture
- Structural design
- Structural investigation and concrete repair
- Project management
- Supervision of construction
- Refurbishment of buildings
- Inspections for insurance / loss adjusters
- Surveys
- Controlled demolition of multi-storey and industrial structures
- Construction disputes
- Temporary works design



Project Experience

- Commercial buildings and showrooms
- Multi-storey towers in concrete and steel
- Factories and warehouses
- Hospitals and medical facilities
- Hotels
- Libraries
- Multi-storey car parks
- School and college facilities
- Sports and recreation facilities including grandstands
- Telecommunications towers
- Roads and bridges
- Repair of marine structures
- Municipal facilities
- Structures for military facilities
- Structures for sewage treatment works
- Structures for water supply works including concrete reservoirs
- Industrial structures



Major Clients

- Ministry of Works
- Electricity and Water Authority
- Ministry of Housing
- Aluminum Bahrain (ALBA)
- Bahrain Defence Force
- Bahrain Flour Mills Company
- Bahrain Hotels Company
- National Hotels Company
- Bahrain Petroleum Company (BAPCO)
- Bahrain Telecommunications Company (BATELCO)
- Gulf Aluminum Rolling Mills Company (GARMCO)
- Gulf Finance Holdings
- Gulf Industrial Investment Company (GIIC)
- Gulf Petrochemical Industries Company (GPIC)

Industrial Projects

Project
Location
Client
Architect

AWALCO Industrial Plant
HIDD
Awalco.
Ismail Khonji Associates



Industrial Projects

Project

**ALBA Main Entrance
Facade Refurbishment**

Location

Askar

Client

ALBA

Architect

Ismail Khonji Associates



BEFORE



AFTER

Industrial Projects

Project
Location
Client
Architect

ALBA VIP Restaurant
Askar
ALBA
Ismail Khonji Associates



Repair & Refurbishment

Project

**Repair & Refurbishment
of Sitra power & water plant**

Location

Sitra Power & Water Station

Client

Electricity & Water Authority

Project cost

BD 3 Million



BEFORE



AFTER

Industrial Projects

IKA has been particularly successful in completing a large number of industrial projects some of which are shown below:

- Steel and concrete silos
- Large diameter steel tanks for the water and petrochemical industries
- Heavy structural steel frames with cranes for potlines, kilns etc
- Telecommunications towers
- Gantry towers and conveyor systems
- Deep underground reinforced concrete works for steel rolling mills
- More than 50 nos. 220/66kV substations





Industrial Projects

Project	USIC Steel Bar Rolling Mill
Location	Kuwait
Client	USIC/A A Nass
Cost of project	US \$50m
Project stage	Completed

This project consisted of a heavy steelwork superstructure and deep underground concrete work(for the cooling water). It was a design and build contract and IKA were engaged by the contractor. IKA carried out the design of all civil works.



Structural Investigation & Repairs

IKA has carried out investigations on numerous large structures in Bahrain and the Gulf States and has designed and supervised the repair of a number of concrete structures which had deteriorated. The repair of the 37m high concrete silos at Bahrain Flour Mills and of the 300m long jetty at Gulf International Investment Company represent two of the largest repair projects ever undertaken in Bahrain and have both been extremely successful. Ismail Khonji has presented a number of technical papers on investigation and repair at international conferences in Bahrain, Dubai and Oman, dating back to 1985.

Infrastructure & Bridges

Project	Financial Harbour Infrastructure Project
Location	Manama seafront
Client	Gulf Financial Holdings
Cost of Project	BD 20 million
Project stage	Completed

IKA was brought in to complete on going work and was the main consultant for this extensive project.



Infrastructure & Bridges

Project	Durrat Al Bahrain Development
Location	Bridges & Highways to South of Bahrain Island
Client	Ministry of Works and Housing
Project cost	BD 18 Million
Project stage	Completed

These are 3-span overbridges across the 28km long highway and use precast prestressed Super Y beams spanning approximately 40m at the middle span. The bridges (5No.) have been designed as semi-integral bridges so that no expansion joints have been provided along the deck. The SY beams and the in situ deck are of composite construction.



Infrastructure & Bridges

Project	Al Madina Al Shamiya Vehicular & Pedestrian Bridge
Location	Manama
Client	Ministry of Housing
Cost of Project	BD 4 million
Project stage	Completed



VEHICULAR BRIDGE



PEDESTRIAN BRIDGE



Bridges

Project	Al Amwaj Development
Location	5 locations, Amwaj Islands
Client	Ossys Properties
Cost of project	BD 1.5m
Project stage	Completed

These bridges are designed as semi-integral bridges of composite construction. There are four 60 metre long bridges and one 100 metre long bridge built across the waterways that link the various islands in this huge development. The piers and abutments are supported on bored piles, and were built in the 'dry', on the reclaimed fill before the waterways were constructed below the bridges. The bridges also carry all services such as water, sewerage, irrigation, electricity and telecom cables.

Infrastructure & Bridges

Project	BFH Pedestrian Bridge
Location	Manama
Client	Ministry of Work
Project stage	Completed





High-rise Buildings

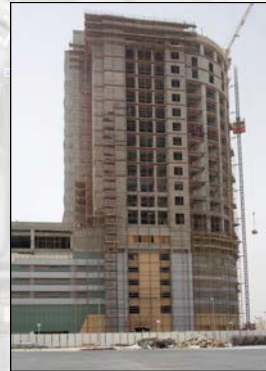
Project	Commercial Office Tower at Diploma Radisson SAS Hotel
Location	Manama
Client	National Hotels Co.
Cost of Project	BD 26 Million
Project stage	Completed 2012

IKA was the client's representative on this prestigious project in the heart of Manama

High-rise Buildings

Project	Seef Residence
Location	Seef area
Client	Seef Properties
Cost of project	BD 12m
Project stage	Completed 2009
Design Architect	Gulf House Engineering

IKA were the main consultants for this prestigious development near the West Wing of Seef Mall





High-rise Buildings

Project	Sail Tower
Location	Seef area, Bahrain
Client	Sh. Rashid Al Khalifa
Project cost	BD 3m
Architects	Al Memaar
Project stage	Completed

IKA was responsible for the structural design of this 14-storey building which incorporated structural steel framing.

Project	Bahrain Chamber of Commerce HQ
Location	Seef area, Bahrain
Client	Bahrain Chamber of Commerce
Project cost	Approx BD 7m
Architects	Arif Sadiq
Project stage	Under Construction

IKA is designing the structural steelwork for the contractor of this 20-storey building. Profiled decking with composite design is used to reduce the steel tonnage.

High-rise Buildings

Project	Taib Bank HQ
Client	Taib Bank
Location	Manama, Bahrain
Project cost	BD 4m
Project stage	Completed in 2002
Architects	Ahmed Abubaker Janahi

This 16-storey structure consists of structural steel framing using composite design and a reinforced concrete basement. All structural work was designed and supervised by IKA.





High-rise Buildings

Project	Al Zamil Tower
Location	Al Zamil Group
Client	Manama, Bahrain
Cost of Project	Approx. Bd. 6.5m
Project stage	Completed 2005
Architect	Gulf House Engineering

This project consists of a 20-storey structural steel framing and a 10-storey reinforced concrete structure joined by a bridging structure across a busy road. The steelwork was designed using composite design with a profiled deck and shear stud floor slabs. The steelwork in the structure was reduced by as much as 50% from that shown in the original design.



High-rise Buildings

Project	JF5 17-Storey Residential Building
Location	Juffair Area
Client	Juffair Views Real Estate Company WLL
Cost of Project	BD 2.6m
Architecture & Structure	Ismail Khonji Associates
Project stage	Under Construction



University Campus

Project	Applied Science University
Location	Al Eker Sitra Area
Client	ASU
Cost of Project	BD 8M
Project stage	Completed 2014
Architect	Ismail Khonji Associates

This Project for which IKA carried out the design and supervision for the Architecture, Structure and Landscaping was completed in 2014 and is considered as one of the finest Buildings in Bahrain.



Sports & Leisure Facilities

Project	Isa Sports City - Phase 1
Client	Ministry of Work & Housing
Location	Riffa
Cost of Project	BD 25m
Project stage	Construction started October 2008
Architect	L & O

This was a major development consisting of a totally refurbished stadium, a hall with seating for 5,000 spectators, three other halls with seating for 3,000 spectators, an athletic track, new football pitches etc. IKA undertook this project in association with Leigh & Orange, Hongkong.

Sports & Leisure Facilities

Project	ISC Hostel and Admin Building
Location	Riffa
Client	Ministry of Works Housing
Architect	L&O





Sports & Leisure Facilities

Project

**National Stadium
Upgrading**

Location

Riffa

Client

Ministry of Works and
Housing



Hotel Construction

Project	One & Only Resort & Hotel
Location	Seef Area
Client	HRH Sheikh Khalifa Bin Rashid
Cost of Project	Above BD 35 M
Architect	DSA Dubai

Medical Center

Project	Ebrahim K Kanoo Community Medical Center EXTENSION
Location	Manama
Client	Ebrahim K. Kanoo
Project stage	Completed
Architect	Ismail Khonji Associates



Sports & Leisure Facilities

Project	Model Sports Clubs
Client	Ministry of Work & Housing
Location	Al Najma, Riffa. Al Shabab and Sitra
Cost of Project	BD 18m
Project stage	completed
Architect	L & O

IKA were the main consultants for this project which consists of a series of sports clubs, each with a club house, sports hall, gymnasium, indoor swimming pool, tennis courts, football pitches and stands.





Hospital

Project	King Hamad General Hospital
Location	Muharraq
Client	Ministry of Works & Housing
Cost of Project	BD 50m
Project stage	Completed
Main Consultant	Australian Hospital Design Group (AHDG)

This 312-bed hospital has been designed by AHDG. It is a 4 level building split into 3 blocks which are separated by courtyards and linked at the upper levels by two parallel hospital streets. IKA are the local consultants and responsible for the detailed structural design. The end-user is the Ministry of Health.



Hotel Construction

Project	Zallaq Resort Hotel
Location	Zallaq
Client	Zallaq Resort Co.
Cost of Project	BD 29 Million
Project stage	Completed
Architect	Sonnell

The Zallaq Resort Hotel is a five star hotel development located on the site of the existing old Bapco Beach Club near the Bahrain Formula 1 circuit. IKA were the main consultants on the construction phase for this project.



Hotel Renovation & Extension

Project	Renovation and extension of Gulf Hotel
Location	Manama
Client	Bahrain Hotels Company
Cost of Project	BD 14 m
Project stage	Tower block Completed 2007
Architect	Ismail Khonji Associates

This was part a major improvement programme at the Gulf Hotel and involved a complete exterior and interior renovation of the Tower Block guestrooms and restaurants. In addition a new 16-storey car park and office block was added.

KEY STAFF

ISMAIL KHONJI Graduated from London University in 1966 and subsequently worked on a wide range of projects for international consultants based in London including Harris & Sutherland and Binnie & Partners. Ismail Khonji has overseen the design and construction of all major IKA projects in Bahrain including Taib Bank, Zamil Tower, BCCI Tower, Gulf Hotel, Diplomat Towers, Janadriyah Grandstand, Isa Sports City, the Model Sports Club, Bahrain Flour Mills silos, bridges on Durrat Highway and Amwaj etc. He is a Fellow of both the UK Institution of Civil Engineers and the Institution of Structural Engineers. He founded Ismail Khonji Associates in Bahrain 1984.



JOHN BARNES graduated in 1990 with BEng in Civil and structural Engineering. He is a Chartered Civil Engineer, a Fellow of the Institute of Civil Engineers and a Member of the Institute of Chartered Arbitrators. He has more than 25 years experience with internationally renowned construction companies on complex Civil, Structural and Marine Projects. He specialises in Engineering Design, Project Management and Contract Administration. John worked on the construction of Al Yah Tower in Al Raha Beach, Diyar Al Muharraq and East Sitra Reclamations and various ports marine projects in Hong Kong and around Bahrain. He has design and/or supervision skills in buildings, district cooling stations, utilities, landscaping, bridges and road infrastructure and in drainage and watermains. His primary roles involved leading management positions and his special skills include Engineering Design, Construction Supervision, Planning, Contract Administration, Project Management and Dispute Resolution.



ROBERT HENRY McCLEAN obtained his degree in Civil Engineering in 1971 and became a chartered member of the UK Institution of Civil Engineers in 1978. He had more than 20 years' experience as Projects Engineer/Manager and Senior Resident Engineer in the UK before joining IKA in 2007. In his 10 years working for the Waterman Group in the UK he was Resident Engineer on a wide range of complex projects.



SWAMY MANJUNATH obtained his master's degree in industrial structures in 1993 and now over twenty four years experience in structural engineering design within a consultancy environment. His experience covers a broad range of buildings and structures including high rise towers in reinforced concrete, industrial steel buildings and residential villas.



KEY STAFF

MOHAMMED ABDEL AZIZ obtained his degree in Architectural Engineering from Alexandria University in 1987 followed by a Master's degree in 2005. He Joined Ismail Khonji Associates in May 2006 as Senior Architect. In his 19 year career as architect in Bahrain, Saudi Arabia and Egypt he has gained wide experience in the study, Design and supervision of hospitals, Health centres, Hotels, Commercial buildings and restaurants. He has also been responsible for the interior design of a number of commercial and residential projects.



SHABBIR DALAL is a Senior Structural Engineer who was employed by IKA from August 1985 to March 2008. He was responsible for the structural design of many of IKA projects.

Shabbir rejoined IKA from November 2014 and is continuing with the structural design work as a team leader.



C MOHAN is a Senior Site Civil Engineer who was employed by IKA from January 1990 to December 2008.

C Mohan who now is qualified as M Tech has rejoined IKA from June 2015 and is the Senior Site Engineer and Project Manager on a number of prestigious projects including the expansion and refurbishment of the 2 towers at the King Fahad Causeway.

