



MOUJ AB FAN

CONSULTING ENGINEERING COMPANY (LTD)

SINCE 2000

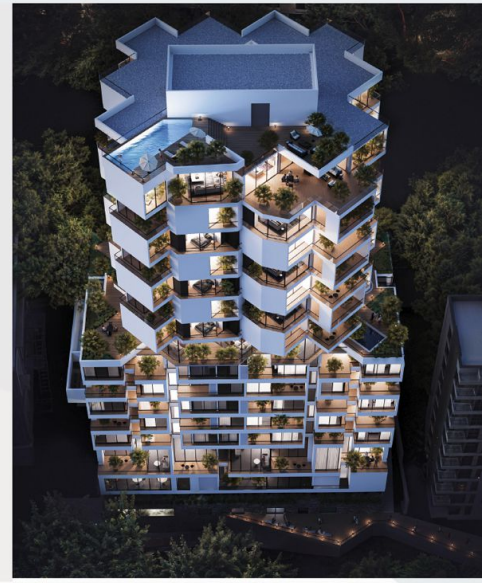




MOUJ AB FAN
CONSULTING ENGINEERING COMPANY (LTD)

About us

Mouj Ab Fan Consulting Engineers delivers innovative solutions that go beyond technical excellence—creating tangible social, environmental, and economic impact. We are committed to empowering communities, enhancing lives, and building long-term partnerships with global stakeholders.



Our Vision

That exceed technical standards while empowering people but also empower people, protect natural resources, and promote long-term development.

Our Mission

To become the consulting engineering partner of choice for international projects, recognized for our integrity, family-driven values, and sustainable, innovative solutions.

Core Values

Integrity & Trust

We build credibility through transparency and ethical conduct.

Family-Driven Commitment

As a family-owned firm, we treat every client like a partner.

Innovation & Agility

We adapt and evolve to deliver high-impact solutions.

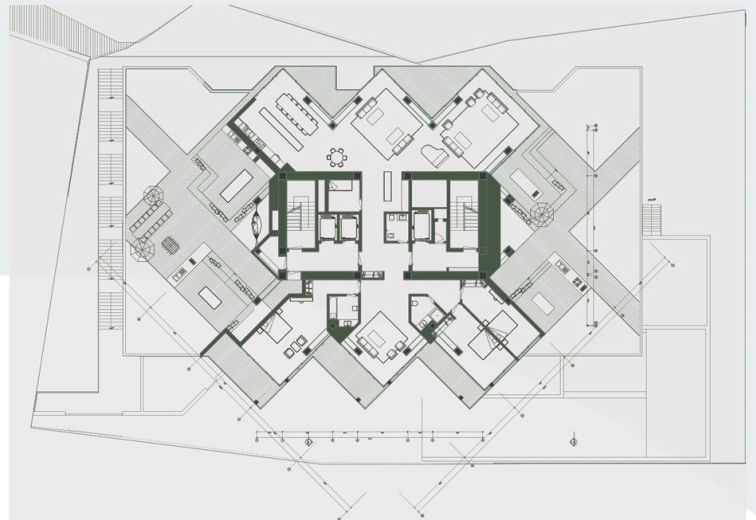
Sustainability Commitment

We prioritize environmentally sustainable practices in all our operations.



Quality Policy

Mouj Ab Fan Consulting Engineers is committed to delivering high-quality, innovative consulting services in full compliance with international engineering standards. Our core focus is client satisfaction, continuous improvement, environmental responsibility, and social impact.



We Pledge To:

- Deliver projects on time and within budget, while meeting the highest technical and quality standards
- Ensure safety, reliability, and operational efficiency in every solution
- Foster continuous technical improvement and internal innovation
- Build long-term partnerships based on trust, transparency, and mutual respect

Key Objectives:

- To uphold and enhance engineering quality across all services
- To lead innovation and adopt emerging technologies in water and environmental engineering
- To collaborate with reputable international and local engineering firms
- To align with global partners in delivering large-scale, cross-border infrastructure projects.



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Our Family Story

Established in 2000 by Engineer Ali Hosseinian, Mouj Ab Fan Consulting Engineers is a legacy brand built on more than 30 years of technical and executive leadership experience in water and environmental engineering.

More than just a company, we are a family-owned firm rooted in trust, shared values, and long-term commitment. Every shareholder is a family member, ensuring unity, accountability, and ethical business practices.



Quick Facts

- **Headquarters:** Gorgan, Iran
- **UK Representative Office:** London, United Kingdom
- **Registered Liaison Office**
- **Key Expertise:** Water, Environment, Agriculture, Natural Resources

This unique identity allows us to build lasting partnerships with clients—working closely with them as trusted collaborators. We approach every project with the same care and integrity that we offer to our own family.





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About us

Mouj Ab Fan Consulting Engineers was founded by Engineer Ali Hosseinian, a pioneer in water and environmental engineering, with decades of senior leadership experience in Iran's infrastructure sector.

Since its inception, the company has become a trusted advisor and engineering consultant in projects related to water, agriculture, environmental sustainability, and natural resource management across Iran.



Engineer Ali Hosseinian
Founder and Senior Consultant

Our Office



Headquarters:

Gorgan, Golestan Province, Iran



UK Representative Office:

London, United Kingdom



Trust lies at the core of our identity — not only in what we deliver, but in the relationships we nurture.





MOUJ AB FAN
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Core Expertise & Certifications

We provide comprehensive consulting and engineering solutions across the following key sectors:

Areas of Specialization

- Water Resources & Irrigation
- Agriculture & Rural Development
- Environmental Engineering
- Civil Engineering & Construction
- GIS & Surveying
- Natural Resource Management



Certifications



ISO 9001:2015
Quality Management System (Certified)



Registered Contractor
with the Ministry of Roads and Urban Development



Licensed to Operate in Free Trade Zones



Certified Project Management Consultancy (PMC)



Project Footprint

Over the past two decades, Mouj Ab Fan Consulting Engineers has delivered sustainable and transformative engineering solutions across a wide range of sectors.

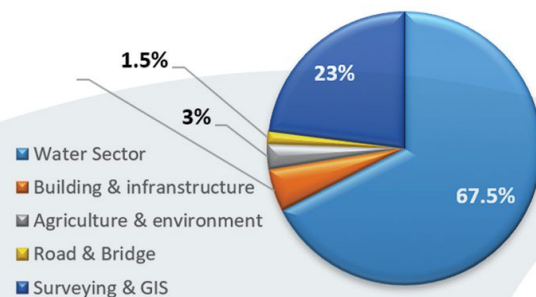
This section provides a summary of our technical expertise through measurable achievements

Sector	Scale of Work	Key Activities
Irrigation & Drainage	250,000 ha	Irrigation network planning, design, and supervision
River Engineering	432 km rivers 207 km revetment works.	Riverbed stabilization, flood control, and hydraulic modeling
Water & Wastewater	630,000 ha (Urban Stormwater Drainage)	Water supply, desalination, sewerage systems, treatment plants
Civil & Building Projects	40,000 m ²	Residential & commercial buildings, water facilities
Roads & Transportation	20 bridges, local roads	Bridge design & flood drain culverts
Agriculture & Natural Res.	110,000 ha (land dev.)	Modern irrigation, soil protection, slope land conversion
Surveying & GIS	39,000 ha mapped	Topographic, UAV & cadastral mapping
Education & Capacity Dev.	40 training programs	Public/private capacity-building initiatives

Sectoral Distribution of Projects:

Our portfolio reflects a strong focus on water and infrastructure-related solutions

Distribution of Activities	
Water Sector	67.5 %
Building & infrastructure	5%
Agriculture & environment	3%
Road & Bridge	1.5%
Surveying & GIS	23%



“Our extensive project footprint demonstrates Mouj Ab Fan’s capability to deliver diverse infrastructure solutions at scale, with a primary focus on water sector excellence.”





National Drainage Scheme for Farmlands South of the Gharasu River

SCOPE OF WORK: Feasibility Study, Design, and Supervision – Technical and Site Supervision

OBJECTIVES:

- Control groundwater table and prevent waterlogging
- Mitigate soil salinity and improve productivity
- Enhance climate resilience and restore Gomishan Wetland

SCOPE (20,000 ha):

- 614 km of surface and 1,013 km of subsurface drains
- 2,600+ hydraulic structures and reservoirs (100 ha)
- Service roads, pumping stations, pipelines, and coastal dyke rehabilitation

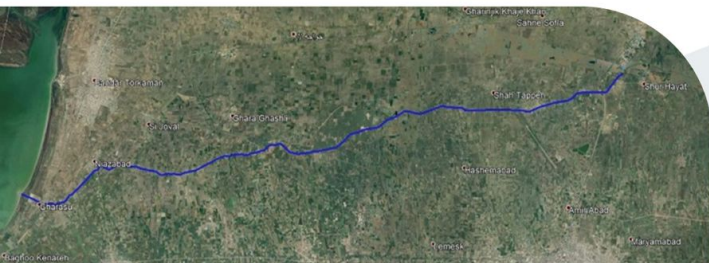
KEY ACHIEVEMENTS:

- Improved drainage and flood control
- Increased crop yields and farm income stability
- Contributed to wetland restoration and ecosystem health



LOCATION: Gorgan, Kordkoy, and Bandargaz cities

TIMELINE: October 2018 – September 2025



LOCATION: Kordkuy, Aq-Qala, and Bandar Turkaman cities



TIMELINE: December 2019 – August 2020

Qaresu River Regulation Plan for Flood and Surface Flow Management

SCOPE OF WORK: Study, Design, and Supervision

OBJECTIVES:

- Restore river ecosystem and maintain natural flow
- Regulate riverbed and floodplain to reduce flood risk
- Prevent erosion and sedimentation
- Identify opportunities for floodwater utilization

SCOPE:

- Engineering and rehabilitation across 6 sections (23.5 km total)

KEY ACHIEVEMENTS:

- Safe passage of floodwaters through engineered modifications
- Increased protection for residential areas and farmland
- Improved ecological conditions and restored river ecosystem



Supervision of Zarringol River Traditional Irrigation Channels Rehabilitation,

Mohammadabad River Flood Protection, and Aquaculture Facilities
(Financed by the Islamic Development Bank IsDB)

SCOPE OF WORK: On-site and High-level Supervision of Construction Works

OBJECTIVES:

- Rehabilitate traditional irrigation channels to optimise water use
- Reduce flood risks and safeguard lands and infrastructure
- Develop aquaculture to support local economy
- Align with IsDB priorities: sustainability, climate resilience, and water security

SCOPE:

- Irrigation: diversion weir, 370 m flume, 1,980 m GRP pipeline, 300 m siphon, 8 km canal lining, 11.3 km Fendersk Canal, 3.2 km return pipeline
- Flood Protection: diversion weir, 21 km irrigation upgrade, 16 ha reservoirs, 6.1 km drainage systems
- Aquaculture: 3.5 ha sturgeon farm, 250 tons/year capacity, 500,000 fingerlings

KEY ACHIEVEMENTS:

- Improved resilience of water infrastructure against climate change
- Strengthened food security and boosted the local economy
- Revitalised traditional irrigation for sustainable management
- Showcased effective international collaboration with IsDB

KEY ACHIEVEMENTS:

- Improved drainage and flood control
- Increased crop yields and farm income stability
- Contributed to wetland restoration and ecosystem health



LOCATION: Aliabad Katul City

TIMELINE: February 2022 – March 2026



LOCATION: Bandar Turkaman and Gomishan cities



TIMELINE: May 2011 – April 2012

Feasibility Study for Potable Water Supply to Bandar Turkaman & Gomishan Using RO Technology

SCOPE OF WORK: Study Consultant

OBJECTIVES:

- Ensure reliable potable water supply for both cities
- Produce 10,000 m³/day of drinking water using Reverse Osmosis (RO)
- Prepare a 15-year master plan (2011–2026) for sustainable water management

KEY ACHIEVEMENTS:

- Delivered a comprehensive technical and economic feasibility study
- Improved water security and reduced reliance on surface and groundwater
- Applied advanced RO technology at an urban scale



Water Supply Schemes for Eastern Regions of Golestan Province

SCOPE OF WORK: Supervision Consultant

OBJECTIVES:

- Expand rural water & wastewater infrastructure
- Improve technical and environmental standards
- Secure, store & convey potable water

SCOPE:

- 114 sub-projects supervised
- 31 reservoirs (13,800 m³ ground + 300 m³ elevated)
- 73 km pipelines + 198 km distribution
- 7,000 household connections
- 21 deep wells

KEY ACHIEVEMENTS:

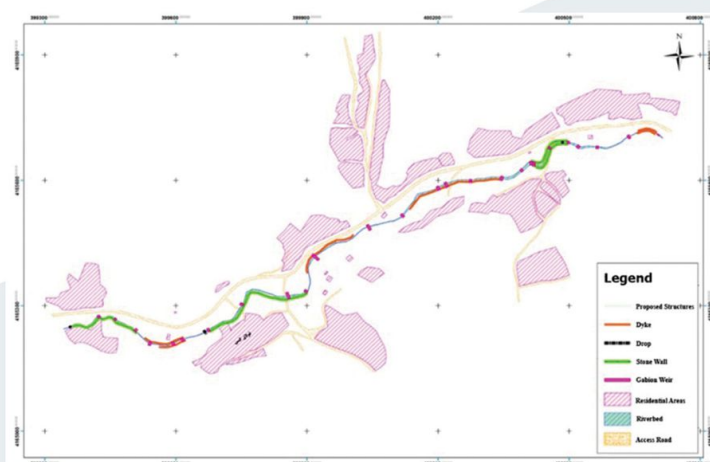
- Expanded rural coverage
- Improved water quality & health
- Strengthened sustainability



LOCATION: Gonbad-e Kavus,
Minoodasht, Galikesh, Ramian, Kalaleh,
Maraveh Tappeh, and Azadshahr cities



TIMELINE: June 2016 – March 2019



LOCATION: Maraveh Tappeh, Kalaleh,
and Azadshahr cities



TIMELINE: April 2023 – March 2025

Number of contracts: 4 Contract

Flood Risk Mitigation for Selected Villages

SCOPE OF WORK: Study and Design Consultant

OBJECTIVES:

- Hazard mapping & catchment studies
- Flood protection design

SCOPE:

- 5.3 km stone walls
- 666 m dikes
- 1.9 km bed stabilization
- 4 bridges & 8.3 km drainage channels

KEY ACHIEVEMENTS:

- Reduced flood vulnerability
- Enhanced rural safety
- Improved runoff management



Conversion of Sloping Lands to Fruit Orchards

SCOPE OF WORK: Socio-economic Studies and Construction Supervision

OBJECTIVES:

- Transform degraded lands into orchards with community participation
- Improve water infiltration and groundwater recharge
- Support rural employment and environmental sustainability

SCOPE:

- Implementation across 9 counties, covering 13,000 ha

KEY ACHIEVEMENTS:

- Reduced soil erosion
- Increased land productivity
- Improved rural livelihoods



LOCATION: Kordkuy, Gorgan, Aliabad, Ramian, Azadshahr, Minoodasht, Galikesh, Kalaleh, and Maraveh Tappeh cities



TIMELINE: May 2014 – August 2018

Number of contracts: 3 Contracts



LOCATION: Gonbad-e Kavus City



TIMELINE: June 2015 – February 2017

Emergency Potable Water Supply – Gonbad-e Kavus

SCOPE OF WORK:

Study and Design

OBJECTIVES:

- Provide 200 L/s safe drinking water for Gonbad-e Kavus and 10 villages

SCOPE:

- Hydrogeological studies, system assessment, and water supply planning

KEY ACHIEVEMENTS:

- Quick, reliable solution for emergency supply
- Reduced pressure on groundwater

Cadastral Mapping 1:500 Using UAV Aerial Photography

SCOPE OF WORK: Surveying

SCOPE & ACHIEVEMENTS:

- UAV flight planning with double-strip and orthogonal method, covering 200 hectares.
- Generated high-precision cadastral maps (error ≤ 1.9 cm planimetric, 2.6 cm altimetric).
- Reliable orthophoto production for accurate urban land management.



LOCATION: Mazraeh Katul City



TIMELINE: March – August 2016



Supervision of the Construction of Main Drains and Floodways in Priority Lands – Zone 2

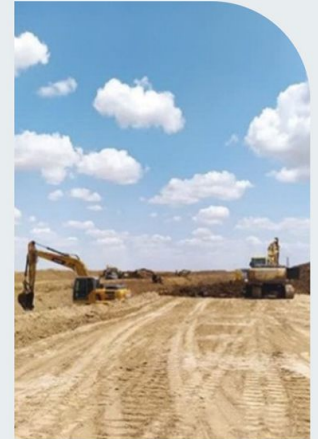
SCOPE OF WORK: Executive and Resident Supervision

OBJECTIVES:

- Reduce flood risks and economic losses
- Improve agricultural productivity and farmers' livelihoods
- Enhance soil and water resources within saline agriculture schemes

SCOPE:

- 14.3 km Bandooli Flood Diversion Drain
 - 12 km rehabilitation of R6 Floodway
 - 10 km rehabilitation of Qaranjik Floodway
 - 5.5 km earth dike (2.5 m high)
 - Bridges, culverts, ford crossing, and intake structure
- KEY ACHIEVEMENTS:**
- Increased regional flood resilience



LOCATION: Aqqala and Gonbad-e Kavus Cities



TIMELINE: March 2024 – March 2026



LOCATION: Ramian, Azadshahr, Minoodasht, Galikesh, Kalaleh, Maraveh Tappeh, and Gonbad cities



TIMELINE: February 2017 – March 2023

Pressurized Irrigation & Water Transmission Pipelines

SCOPE OF WORK: Study, Design, and Supervision

OBJECTIVES:

- Improve irrigation efficiency and crop productivity
- Develop crop-based irrigation schedules
- Apply optimized methods for sustainable water use

SCOPE:

- 4,000 ha pressurized irrigation systems
- 156 km water transmission pipelines

KEY ACHIEVEMENTS:

- Enhanced performance and quality of irrigation projects
- Identified strengths and addressed weaknesses in execution
- Supported future expansion of efficient irrigation systems



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Odena Residential Complex – Premium Real Estate Investment in a Strategic Urban Location

The Odena Residential Complex stands as one of the most prestigious real estate developments in northern Iran, uniquely positioned at the end of Minagol cul-de-sac, directly adjacent to lush forests and a natural river.

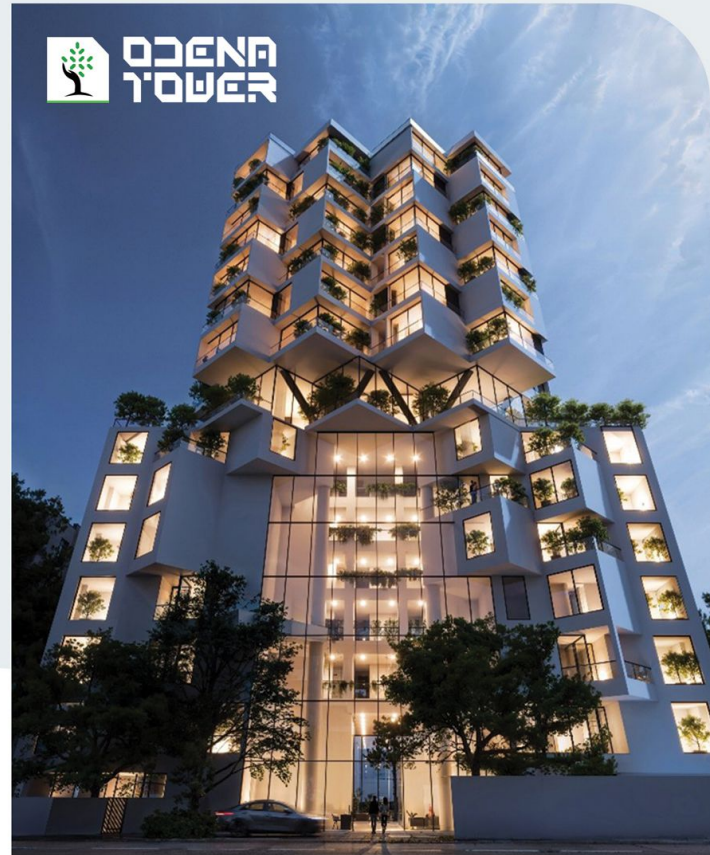
Designed and executed to meet international standards, the project represents a landmark investment in high-end urban development.

The complex features a 13-storey luxury tower with three underground parking levels, offering diverse residential typologies including deluxe duplexes, premium flats, and exclusive penthouse villas.

Distinguished amenities include grand lobbies, an event and music lounge, tennis court, fully equipped sports facilities (indoor swimming pool, dry and steam saunas, massage rooms, yoga and dance studios, and a modern gym), dedicated children's learning and play areas, landscaped green courtyards, and panoramic forest views from most units.

As a regional reference project, Odena reflects Mouj Ab Fan Consulting Engineering's capability to deliver sophisticated, multi-purpose, and luxury developments.

This expertise forms a strong foundation for participation in major international ventures — including large-scale infrastructure programs such as the King Fahd Stadium facilities enhancement in Saudi Arabia.



LOCATION: Gorgan – Overlooking the pristine forests of Alangdareh and a scenic riverside



TIMELINE: March 2021 – Ongoing



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LOCATION: Gorgan – Overlooking the pristine forests of Alangdareh and a scenic riverside



TIMELINE: March 2021 – Ongoing

Final Summary & Strategic Vision :

Mouj Ab Fan Consulting Engineering (Ltd) stands as the leading water and infrastructure consulting firm in Northern Iran, with decades of proven expertise in hydrology, water management, urban and agricultural infrastructure, and resilient development. Our portfolio of large-scale projects demonstrates our ability to deliver innovative, sustainable, and cost-effective solutions tailored to the unique challenges of each region.

With a highly experienced technical team, regional insight, and a track record of collaboration with governmental and international stakeholders, we are strategically positioned to serve as a reliable execution partner in the Middle East. Our vision is to leverage our specialized knowledge and innovative engineering approaches to contribute to global landmark projects, such as the completion of the King Fahd Stadium infrastructure. By aligning our capabilities with AECOM's international standards, we are confident in our ability to bring value, resilience, and efficiency to complex, high-profile developments.

We welcome the opportunity to establish a long-term partnership, combining local expertise with global excellence, and to actively contribute to transformative infrastructure projects across the region.





Board Members



Chairman of the Board:
Mr. Ali Hosseinian

- Chairman of the Board (COB) and Chief Executive Officer (CEO)
- MSc– Watershed Management– Agricultural Sciences and Natural Resources
- More than thirty years of work experience in government agencies
- (Former General Manager of Mazandaran and Golestan Regional Water company, Deputy of Mazandaran Regional Water Exploitation, etc.)



Vice Chairman
Mr. Mostafa Hosseinian

- Vice-Chairman and Executive Director
- B.Sc.– Civil engineering
- More than fifteen years of work experience in the Mouj Ab Fan company
- (being dominant in the field of management and project control)



Board Member
Mr. Ali Zia-Tabar Ahmadi

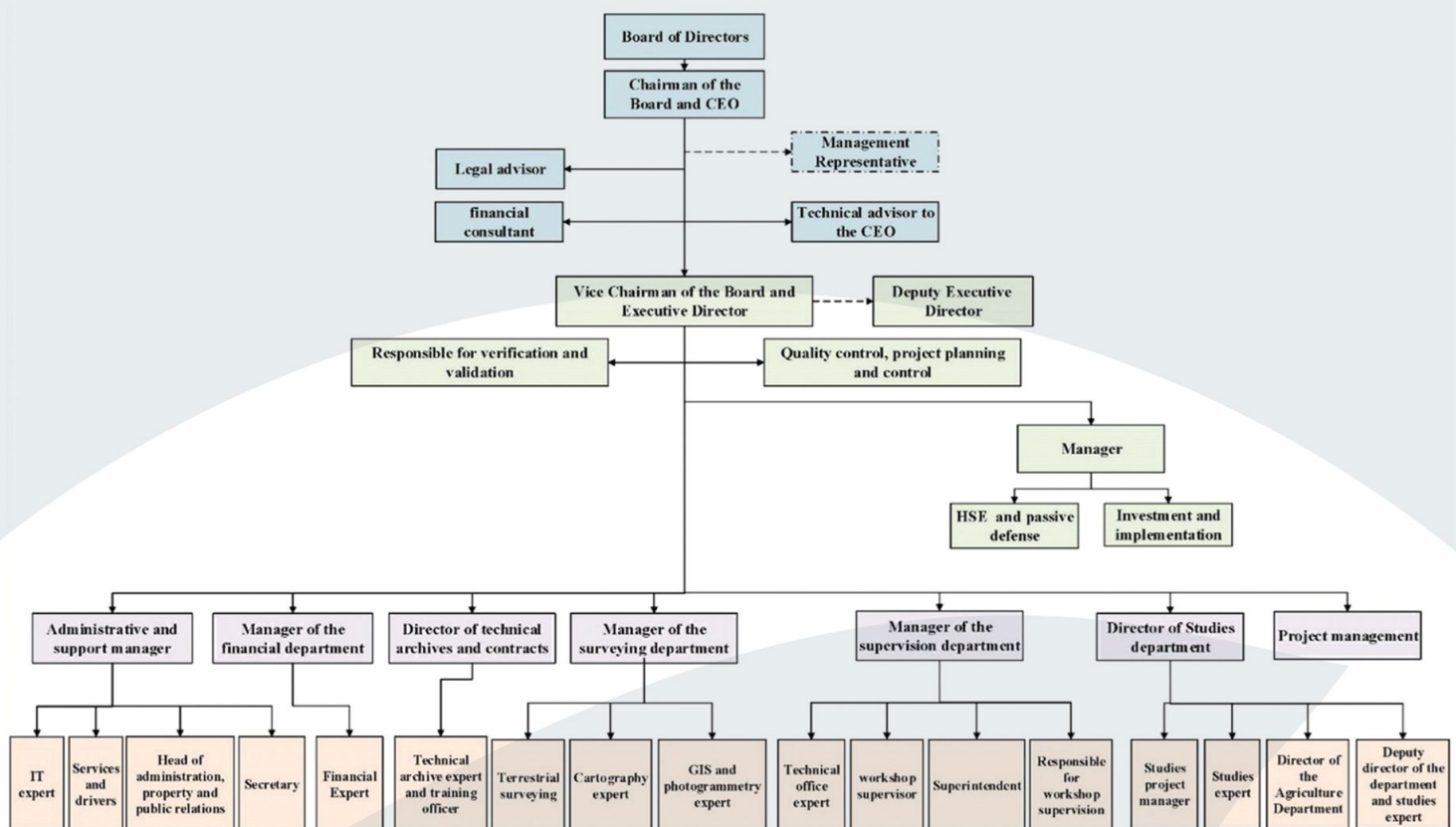
- Board member of directors and master of studies
- Ph.D. – Agricultural Engineering, Irrigation and Drainage
- More than ten years of work experience in the Mouj Ab Fan Consulting Engineering Company
- (having knowledge about the condition of water and soil resources in the Golestan province)

The company's streamlined structure enables flexibility, accountability, and seamless coordination across all departments.



ORGANIZATIONAL STRUCTURE

Mouj Ab Fan's organizational structure supports efficient project delivery, cross-disciplinary teamwork, and rapid decision-making. The board and management team combine deep technical expertise with strategic vision, ensuring reliable leadership at every level.



Key Technical Personnel:

In addition to its family-based management board, Mouj Ab Fan Consulting Engineers relies on a diverse team of highly experienced technical personnel. These specialists strengthen the company's capabilities in various fields and ensure high-quality project delivery. Our key technical team includes senior experts in water engineering, irrigation and drainage, river engineering, environmental studies, civil engineering, GIS & surveying, agriculture, and project management. Each member brings extensive knowledge, international exposure, and a commitment to excellence.



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LET'S COLLABORATE

Mouj Ab Fan Consulting Engineers welcomes partnerships with UK and international firms. With over 25 years of multidisciplinary expertise, we deliver innovative, sustainable, and reliable solutions in water, environment, and infrastructure projects.

CONTACT US

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