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CEO message

Mehrdad Hajzavar

The large family of Zistab Consulting Engineers is proud that in line with the vision of his honorable father, Mr. Mohammad Mehdi Haj Zavar, has been able to play a constructive role in the sustainable management of the country's water resources with nearly half a century of efforts and success. To provide decent services in the water and wastewater industry, nationally and internationally.

Challenges facing the country in the water industry, including lack of water resources, exponential course of water consumption, high amount of virtual water for agricultural production, lack of attention to surface renewable water sources and groundwater resources, the presence of industrial and chemical pollutants And effluents, reservoir deficit and negative balance of groundwater resources, the need to implement inter-basin water transfer projects, the need to supply water to metropolitan areas, the need to manage joint water resources with the country's neighbors and many other cases, the company continues The path of its founder and more determination to play an effective role in sustainable development in the water industry, has become more determined.

Zistab Consulting Engineers Company with a systemic approach and implementation of all new management systems, strategic and interactive management and the formation of strategic committees, development and excellence, specialized technical and comprehensive quality management, provide the grounds for the effectiveness of management processes, operational and operational And strives to improve the level of technical and professional capabilities and increase the level of stakeholder satisfaction.

Zistab large family, in an intimate and healthy environment and with teamwork and a sense of commitment and responsibility, tries to develop human capacity and agility in responding to the needs of projects, protect and safeguard the interests of all stakeholders by observing professional ethics Show

In this direction, with the idea of a better tomorrow and the improvement of human life, with emphasis on safety, health and environmental protection and adherence to the obligations agreed in the contract, for the safe operation of projects, we believe in the greatest asset, which is employers' trust in This company is playing a constructive role in the sustainable development of the country.

We hope that the continuation of providing desirable services will be possible and we will witness the flourishing and increasing development of our dear country.



Mohammadmehdi Hajzavar
The father of the family of Zistab Consulting Engineers





- Concrete, earth and rockfill dams
- Hydropower plants
- Long water transfer tunnels
- Urban utility tunnels
- Gravity and pressurized irrigation and drainage networks
- Water pipelines and pumping stations
- Water and wastewater treatment plants
- Water distribution networks
- > Wastewater collection and disposal networks
- Water transmission lines and pumping stations
- Environmental studies of the projects
- Artificial feeding facilities
- Social and operational systems studies and public participation in the projects
- > Treatment studies of the existing projects
- Surface water collecting networks
- Study and monitoring of water resource utilization of catchments and economic, social and environmental impacts of water
- Comprehensive studies of water resources with an integrated water and wastewater resources management approach
- Operation, maintenance and safety control of dams
- Operation and maintenance of irrigation and drainage networks
- Operation of waste water facilities (Includes production, transmission and distribution of drinking water-drinking water treatment plant-wastewater treatment plant)
- Management of water and wastewater macro projects
- > Participation in design and construction projects
- Geographic Information System (GIS)
- Flood control facilities
- > Participation in BOT and BOO and investment projects (PPP)
- Desalination plant
- > Finding potential for water and wastewater sector investment projects
- Documentation and knowledge management of water and wastewater sector projects

Zistab Consulting Engineers, with more than 40 years of experience in the water and wastewater industry, as one of the most influential companies in the field of water and wastewater engineering, provides high quality engineering services to employers. The ideal of the company and its human resources is to play a long lasting role in the country's water industry and create a platform for sustainable development.

### **History**

At present, these consulting engineers have succeeded in designing, managing and implementing more than 200,000 hectares of irrigation and drainage networks, 20 reservoir dams, approximately 2100 km of transmission lines, more than 130 km of tunnels and more than 1.5 billion cubic meters of regulated water. According to its national and international experiences in conducting study projects, supervision, operation and project management in the fields of dam construction, irrigation and drainage, water and wastewater structures and facilities, agriculture and environment are ready to provide technical management and engineering services in all specialized fields.





Fields of

activity



### Rankings, Certificates, Memberships

### Iranian Society of Consulting Engineers

- International Federation of Consulting Engineers
- Credit and Banking Investment Advisors Association
- Iranian Association of Exporters of Technical and Engineering Services
- Tehran Chamber of Commerce Industries Mines and Agriculture
- Iran-China Chamber of Commerce and Industries
  - Association of petroleum industry, Engineering and construction companies (Apec)

Vision

**Memberships** 

Playing a lasting role in the country's water industry and laying the groundwork for sustainable development

**Mission** 

Activities in water engineering in the national and international region in terms of quality and the highest available engineering standards

#### Iranian Concrete Association

- > Iranian Value Engineering Association
- > Project Management Association
- National Committee for Large Dams
- > Iranian Geotechnical Association
- Construction Management Association
- Federation of Consultants from Islamic Countries (FCIC)

# Rankings and Certificates of Competency

- Dam Construction: Grades A and B
- Dam Construction Project Management: Grade A
- > Specializing in agriculture, natural resources and husbandr: Grade C
- Irrigation and Drainage Networks: Grades A and B
- Water and Wastewater Facilities: Grade A
- Operating from Wastewater Facilities: Grade D
- Structures: Grade C
- > Environment: Grade C
- > Certificate of competence for operation, maintenance and safety control of dams
- > Certificate of competence for operation and maintenance of wastewater
- treatment plants
- Certificate of competence for operation and maintenance of irrigation and drainage networks
- Certificate of competence of companies for operation and maintenance of drinking water facilities (drinking water treatment plant)
- Certificate of competence of companies for operation and maintenance of drinking water facilities (production, transmission and distribution)
- Certificate of consulting services of the Center for Credit and Banking Investment Advisors
- Contractors' safety competency certificate
- > Technical and engineering license of the Ministry of Industry, Mines and Trade

# **International** certifications

By obtaining the following international certifications, Zistab, while improving the quality of services, has succeeded in gaining the trust of employers, and in this regard, has completed or is in the process of several projects in various fields of construction.

- Quality management system standards
- > Environmental management system
- Occupational Safety and Health Assessment Collection
- Project management system standards
- > Health, safety and environmental management system
- integrated management system

- ISO 9001 2015
- ISO 14001 2015
- ISO 45001 2018
- ISO 21500 2020
- HSE MS
- IMS







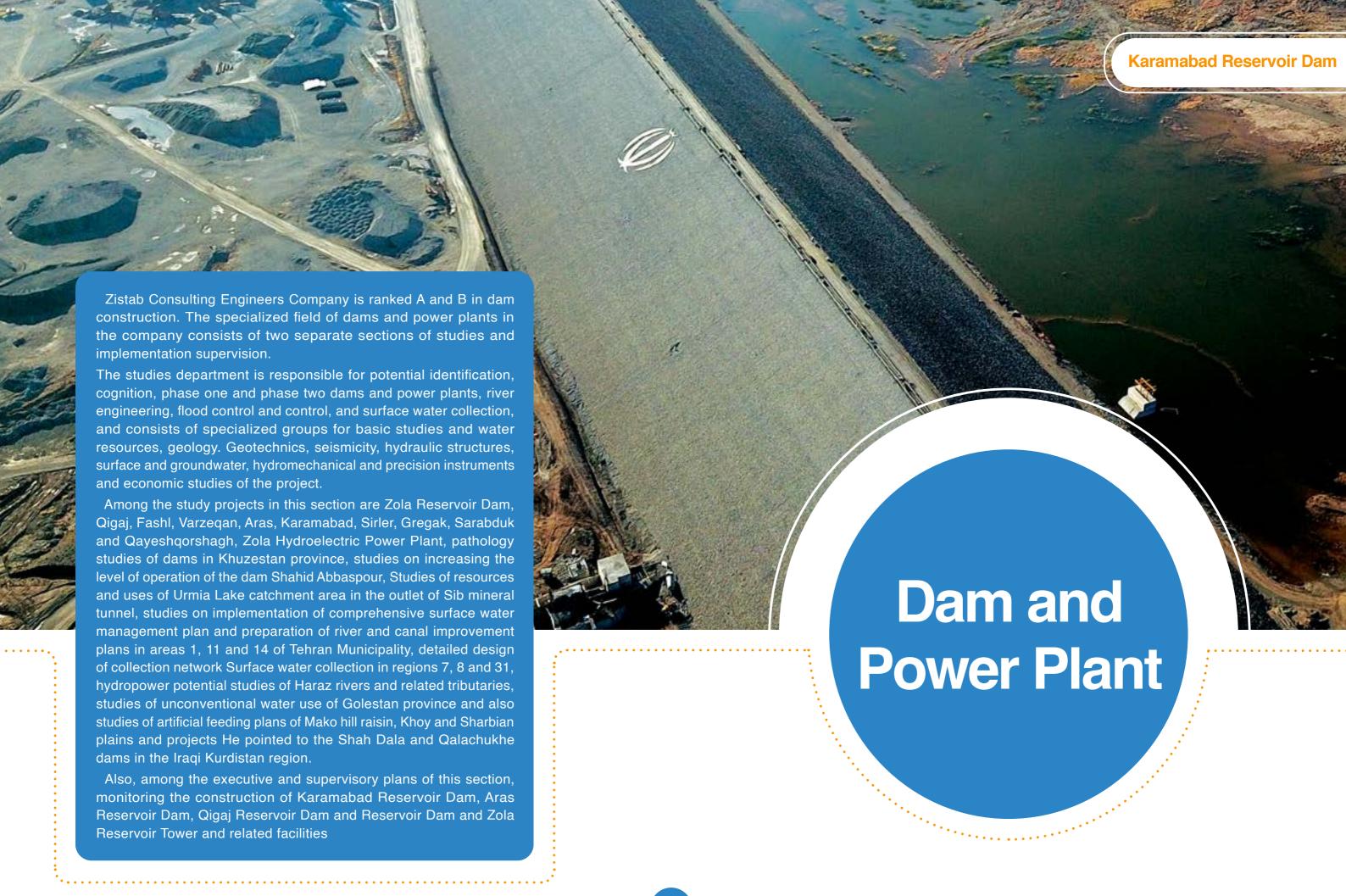
















Selected dam and power plant projects



Studies on the Construction of the Zola Storage Dam and its Appurtenant Facilities

## Type of Service

1st and 2nd Phase Studies and supervision (3rd Phase)

Location

Salmas City, West Azerbaijan, Iran

Client

West Azerbaijan Regional Water Company

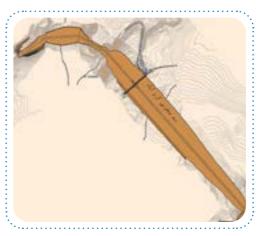
### **Objectives**

- Regulating the Zola River for the irrigation of parts of Salmas—Ghareghagh Plain (85.3 million cu. m);
- Supplying the drinking water demands of Salmas and Tazehshahr (12 million cu. m);
- Power production (1.2 MW);
- > Average annual flow of the river: 151.3 million cu. m;
- Embankment dam with a clay core and a 323 m long crest, rising to a height of 87 m from foundation and 56 meters from the bed;
- > 40 m wide open-channel spillway with an ogee control section on the right support and a maximum capacity of 925 cu. m/s;
- Intake system composed of three 3 x 3 sq. ms gates, four butterfly valves (1500 mm, 1400 mm (x2), and 700 mm), and three Howell Bunger valves (1200 mm (x2), and 600 mm);

## Project Components

- Bottom outlet including a  $1.5 \times 1.2$  sq. m service gate and a  $1.6 \times 1.2$  sq. m emergency gate with a total capacity of 50 cu. m/s;
- > 3 × 3 sq. m, slanted (60% slope) concrete intake tower with three intake levels;
- **6**-km-long reservoir with a maximum width of 1000 m, spreading over 303 hectares at normal elevation;
- Normal elevation: 1510 m above sea level; reservoir capacity at the normal elevation: 72 million cu. m:
- Cost of implementation: 650 billion IRR equivalent to 650 million USD (2001–2015);

### Selected dam and power plant projects



Construction of Karamabad Reservoir
Dam Water and Soil Resources
Development Project on the South Bank of
Aras River in West Azerbaijan Province

### Type of Service

1st and 2nd Phase Studies and supervision (3rd Phase)

#### Location

West Azerbaijan / Poldasht and Shoot

#### Client

> West Azerbaijan Regional Water Company

### Objectives

- Utilizing Iran's water rights through the reservoir of The Aras Storage Dam;
- Developing the farmlands along the southern course of The Aras river by storing the surplus pumped water in the reservoir of Karamabad Storage Dam;
- > Supplying the water demands of the 19,250 hectares of downstream farmlands;

### Embankment dam with a clay core and a 2400 m long crest comprised of two walls (storage dam was built off-bed) rising to a height of 55.6 m;

- > Broad-crested spillway with 53-m-long stepped chute and a width of 4 m at the bottom;
- Normal elevation: 1000 m above sea level; reservoir capacity at the normal elevation: 54 million cu. m;

- Dual-purpose, twin, bottom outlet culvert (3.3 m × 2.8 m). The right cell serves as a bottom outlet (1.2 m diameter steel pipe), whereas the left cell is used as the intake system (1.6 m diameter steel pipe);
- > Pumping rate from The Aras to the reservoir: 5.3 cu. m/s for eight months a year;
- Cost of implementation: 1750 billion IRR equivalent to 729 million USD (2012–2018);





Selected dam and power plant projects



Studies of the Implementation of Tehran Stormwater Management Master Plan and Minor Drainage System Improvement in Regions 7, 8 and 13 of Tehran Municipality

Type of Service

Detailed Design Studies

Location

Municipal Regions 7, 8 and 13, Tehran, Iran

Client

Deputy of Technical & Development Affairs - Tehran Municipality

Objectives

- Detailed design studies of the drainage system;
- Hydraulic improvement of the drainage system model, locating and preparing repair and maintenance plans;
- Updating the GIS data bank;
- > Preliminary arrangements and preparing a list of high-priority plans in the region;
- Detailed design for improvement, renovation, and development of the subnetwork;
- > Detailed design for improving the performance of the subnetwork;
- > Preparing repair and maintenance plans for the subnetwork;

Project Components

- Devising repair and maintenance plans for the main network (spot repair and maintenance plans);
- > Preparing the documents and establishing the terms and conditions for tenders;
- Detailed description of improvement plans for the Sa'di Channel at the Mofatteh St.–Tabarsi St. intersection (Tehran Municipal Region 7);
- Detailed description of maintenance services for the Piruzi Channel (Tehran Municipal Region 13);

Selected dam and power plant projects



Studies on the implementation of the comprehensive plan for surface water management and the preparation of plans for the improvement of rivers and canals in areas 1, 11 and 14 of Tehran Municipality

Type of Service

> Conceptual, basic and 2nd Phase Studies

Location

Municipal Regions 1,11,14 Tehran, Iran

Client

> Region 1,11,14 Tehran Municipality

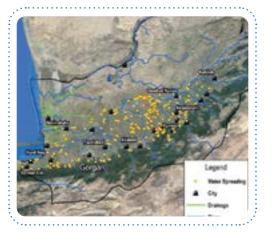
Objectives

- 1st and 2nd Phase studies of the drainage system;
- Hydraulic improvement of the drainage system model, locating and preparing repair and maintenance plans;
- Updating the GIS data bank;
- > Total area: about 8100 hectares:
- > Total length of passages in the regions: about 1300 km;
- > Total length of main canals in the regions: about 58 km;

- Total length of 3rd and 4th degree canals and streams in the regions: about 1200 km;
- The total length of the desired pattern designs of 3rd and 4th degree canals and streams in the regions: about 116 km;
- Total length of 3rd and 4th grade canals and canals repair projects in the regions: about 18 km;







First-Phase Studies of the Utilizing Unconventional Water Resources for the 280,000 Hectares Drainage Area

Type of Service

1st Phase Studies

Location

> Golestan, Golestan Province, Iran

Client

Golestan Regional Water Company

Objectives

**Project** 

Components

- Identifying and investigating unconventional water resources including agricultural drainage water, treatment plant effluent, salt water, and underground brackish water in the province;
- Capitalizing on unconventional water resources in the agricultural, fishing, and industrial sectors among others;
- > Collecting desk and field statistics, analyzing the data, and making a conclusion;
- > Establishing the quantity and quality of unconventional water resources in different sectors, including agricultural, salt water, underground brackish water, and treatment plant effluent;

Proposing solutions to improve the quality of unconventional water resources to suit particular applications in agriculture, aquaculture, and industry among others;

- > Reviewing environmental considerations of utilizing unconventional water resources;
- > Preparing and completing the GIS data bank;
- Holding training courses for the employer based on the study results;



Evaluation of the Potentials of Haraz River and its Tributaries (Nur and Baladeh) for Building a Hydroelectric Power Plant

Type of Service

Identification and Potential Evaluation Studies

Location

> Haraz River, Mazandaran Province, Iran

Client

Mazandaran Regional Water Company

Objectives

Evaluating the potential of Haraz River and its tributaries (Noor, Baladeh) for building a hydropower plant, and preparing the tender documents for a B.O.O or B.O.T contracts.

- Carrying out meteorological, hydrological, geological, seismic and studies, as well as evaluating access routes and producing a final report;
- Screening and selecting eligible sites through economic–financial analysis;
   Based on the study results, around 20 sites were located in the area with an overall potential for generating 56 MW of hydroelectric power;
- > Preparing tender documents for a B.O.O contract.







**Hydrological Studies of Sohrab Oil Field** 

Type of Service

Basic studies

Location

> North Azadegan and West of Hamidiyeh, Khuzestan Province, Iran

Client

Dana Energy Company - Oil Design and Construction Company (ODCC)

**Objectives** 

➤ Flood control and water supply required for Sohrab oil field, including 11 oil extraction wells, pumping station and about 60 km Oil transfer pipeline from the oil field to the processing and separation unit west of Karun

Project Components

- Hydroclimatology studies
- Hydrological and flood studies
- Hydraulic and flood control studies
- > Water supply studies during the construction and operation period
- > Provide flood control plans



**Supplementary Studies on Water Supply to Khoy City (Aland & Ghotour Dam)** 

Type of Service

> 1st Phase Studies

Location

> Khoy City, West Azerbaijan Province, Iran

Client

> West Azerbaijan Regional Water Company

Objectives

- Studies on the construction of a reservoir dam on the Qotour and Aland rivers to store and regulate the water required
- Supply of drinking water shortage in Khoy city on the horizon plan from surface and underground water resources

- Studies of Reservoir dam and appurtenant structures and water regulation of Qotour and Aland rivers
  - Studies of water intake and related facilities
- Water transmission line studies from the place of supply to Khoy city
- > Felman well studies for short-term water supply from groundwater sources











Selected tunnel projects



Design and Construction of Water Transmission Tunnel from Safa Dam to Kerman City

Type of Service

Contractor Partner Consultant in design and construction

Location

Rabor, South East of Kerman, Iran

Client

Kerman Regional Water Company

Objectives

- Lowering the city's dependence on underground resources for supplying its drinking water;
- Water supply from reliable water resources in partial fulfillment of Kerman's drinking water demand;
- Diverging the surplus water resources in excess of irrigation, drinking, and industrial demands;
- Excavating a 19,000 m entrance tunnel by a TBM (Double Shield) at a
- positive slope from the entrance portal to the cavern where the machine was disassembled:

Project Components

- Excavating an 18,857 m exit tunnel by a TBM (Double Shield) at a positive slope from the entrance portal to the cavern where the machine was disassembled;
- Excavating a 2589 m access tunnel with a negative 11.5% slope by the New Austrian Tunnel Method (NATM);
- Excavating a cavern by the NATM for disassembling the TBM.

### Selected tunnel projects



Water Transmission Tunnel Delivering the Surplus of the Gelas River to the Lake Urmia Basin

Type of Service

> Site and Supreme Supervision (3rd Phase) and Design control

Location

Naghadeh, Piranshahr, Southern West Azerbaijan Province, Iran

Client

> Iran Water and Power Resources Development Co.

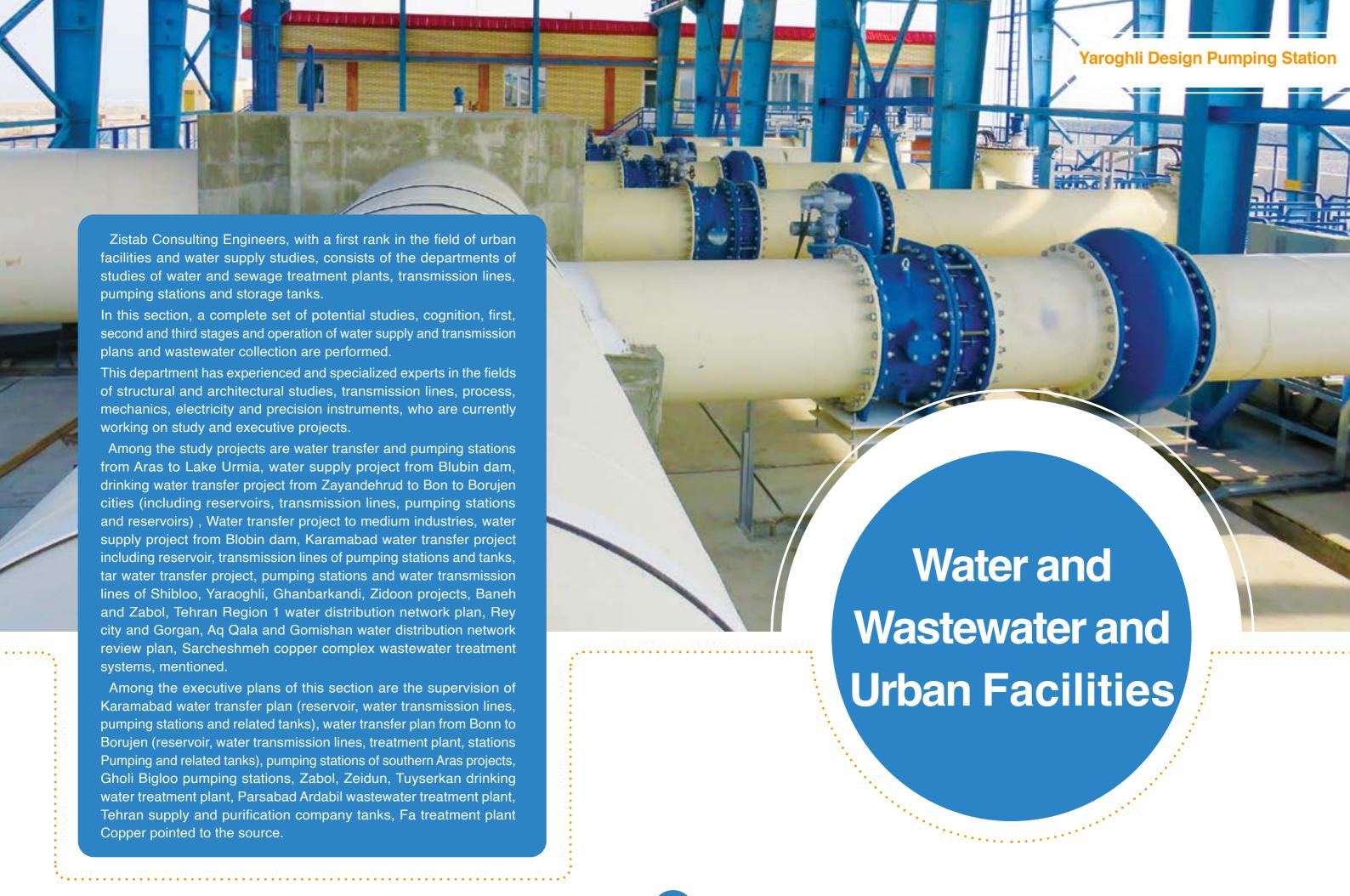
Objectives

- > Transmission of the surplus water resources in excess of demands (irrigation, drinking, and industrial water) from Gelas River basin to Lake Urmia;
- Controlling and regulating water outflow from the Gelas River basin leaving the country;
- Controlling and compensating of a portion of water collected from Lake Urmia;
- > Excavating a 1354 m access tunnel with a negative 10.2% slope;
- Excavating a 135-m-long, 15-m-high, and 15-m-wide cavern for disassembling the Tunnel Boring Machine (TBM) inside a granite rock mass;

- Excavating the first segment—the alluvial part—of the main tunnel with a length of 15 km and a negative slope by a Dual Mode TBM from the entrance portal to the cavern where the TBM was disassembled;
- Drilling of the second section with a length of 2.20 km using a TBM DS (Double shield) machine with a positive slope towards the dismantling cave and exit of the TBM machine
- Water transfer capacity of the Gelas Tunnel: 646 million cu. m per year.













Water transmission pipelines and pump stations in Karamabad

Type of Service

> 1st and 2nd phase studies and supervision (3rd Phase)

Location

West Azarbaijan Province, Mako, Poldasht

Client

> West Azarbaijan Regional Water Company

**Objectives** 

**Project** 

Supply and transfer of agriculture water from Aras dam to the lands downstream of Karamabad Dam with an approximate area of 22,000 hectares

- Intake, pumping and transmission capacity in the main path: 5.5 cubic meters per second
- Specifications of pumping stations in the main route: Three pumping stations with an elevation of 25, 130 and 130 m, respectively
- Specifications of the main transmission line: 21 km long steel pipe with a diameter of 2000 mm diameter and an operating pressure of 16 bar
- Components > Specification of pumping sub-stations:
  Pumping Station 4 with a capacity of 4.7 m

Pumping Station 4 with a capacity of 4.7 m3/s and a height of 135 m Pumping Station 5 with a capacity of 1.6 m3/s and height of 155 m Pumping Station 6 with a capacity of 0.1 m3/s and height of 140 m Pumping Station 7 with a capacity of 1.1 m3/s and height of 150 m Pumping Station 8 with a capacity of 0.5 m3/s and height of 160 m

# Selected Water and Wastewater and Urban Facilities projects



Construction, operation and transfer of BOT, executive project of Tuyserkan drinking water treatment plant

Type of Service

BOT

Location

> Hamedan / Tuyserkan

Client

> Hamadan Regional Water Company

**Objectives** 

Supply of drinking water for Toyserkan

- Delivery capacity: 7 million cubic meters per year
- Design capacity of water treatment plant: 320 liters per second (in two modules)
- > Population of project horizon (2031): 100,000
- Main components of the treatment plant: DAF sedimentation, filtration, chlorination







Aras excess water transfer to meet the environmental requirements of the National Park of Lake Urmia

Type of Service

1st phase study

Location

> Northwest of Azarbaijan province, between Aras Dam and Lake Urmia

Client

West Azarbaijan Regional Water Company

**Objectives** 

> Providing part of Lake Urmia environmental demand

Project Components

- Transmission system capacity: 348 million cubic meters per year
   General specifications of pumping station: 7 pumping stages with a total height of 660 m Specifications of pipelines: pipe diameter: 3200 mm, length: 48 km
   Water transfer channel: floor width: 5 m, height: 5.4 m, length: 74 km
- > Water transfer tunnel: diameter: 5 m, length: 17 km

Selected Water and Wastewater and Urban Facilities projects



Revision of the water distribution network and related facilities in Region 1 Water and Wastewater Authority of Tehran

Type of Service

1st and 2nd Phase Studies

Location

Region 1 Water and Wastewater Organization of Tehran (Regions 1, 2, 3, 4 and 6 of Tehran Municipality)

Client

> Region 1 Water and Wastewater Authority

Objectives

- Modeling the current status of water supply to the region, determining and troubleshooting existing network weaknesses
- Survey of population growth and urban development, designing a suitable water distribution network for the end of the project period
- > DMA studies in the scope of the plan

Project Component

- Total population (2011): 1277901
- > The population of the project horizon (2031): 2237919

**Components** > Area of the project: 12432 hectares

Number of water subscribers: 122,000







Feasibility and conceptual studies for the construction of desalination plant of Persian Gulf Fajr Energy Company

Type of Service

> 1st and 2nd Phase Studies

Location

> Khuzestan Province, Mahshahr City, Petrochemical Special Economic Zone.

Client

Persian Gulf Fajr Energy Company

### **Objectives**

**Project** 

Components

Feasibility study and conceptual design of water extraction from the Persian Gulf and wastewater discharge, construction of a desalination plant with a capacity of 500,000 cubic meters per day and a transmission line to the complex

- > Investigating, conducting studies and collecting existing information from Fajr company and surrounding areas
- Conceptual design of a water extraction system from the sea with a water extraction capacity of 1,700,000 cubic meters per day. For this purpose, the following activities have been carried out:
- Basic hydrodynamic studies including wind, wave and flow hydrodynamic studies, sediment and morphology studies
- Investigating different methods of taking water from the sea and selecting the best option
- Conceptual design of water intake system, land site and water transmission pipeline

  Sea water recirculation studies for the selected and final option (seawater recirculation)
- Sea water recirculation studies for the selected and final option (seawater recirculation)
   Conceptual design of desalination facilities and providing their minimum design and functional requirements. Desalination facilities have been developed in 5 phases each with the capacity to produce 100,000 cubic meters of desalinated water per day.
- Routing and conceptual design of desalinated water transmission line with a diameter of 1800 mm
- Investigating how to supply 150 megawatts of electricity for water catchment facilities, desalination plants and water transfer pump houses
- Obtaining legal licenses with the cooperation and cooperation of the employer, including the water allocation license from the Ministry of Energy, the license from the Ports and Maritime Organization, the license from the Environment Organization of the country, the license from the Fisheries Organization, the license from natural resources, the license from the Petrochemical Special Economic Zone Organization, License from regional water, license from regional electricity, license from Ministry of Roads, license from armed forces, etc
- Economic and financial studies, the estimated investment cost of the project and the total price of water are about 34 thousand billion and 430,000 rials, respectively.





Consulting services for Industrial and Human Wastewater Treatment Systems of Sarcheshmeh Copper Complex, Quality Improvement of Shoor Riverbed

Type of Service

> 1st and 2nd phase studies and supervision (3rd Phase)

Location

Sarcheshmeh and Darrehzar Copper Mines, Rafsanjan City, Kerman Province, Iran

Client

National Iranian Copper Industries Company (NICICO)

**Objectives** 

- Comprehensive management of integrated wastewater treatment and treatment system in Sarcheshmeh and Darrehzar copper complexes and related units
- Improve the performance and productivity of the organization and the prevention and control of environmental pollutants and environmental protection

- Integrated wastewater collection network in Sarcheshmeh and Darrehzar copper complexes
- Centralized or separate treatment plants for human and industrial wastewater treatment within the project area







Water Transmission System from the Oman sea to the industries of Isfahan province

Type of Service

> 1st and 2nd phase studies and supervision (3rd Phase)

Location

> Hormozgan, Kerman, Yazd and Isfahan provinces

Client

Isfahan Water Supply Company (Sofeh)

**Objectives** 

- Transferring water needed by the industries of Isfahan province from the Oman Sea to Isfahan with a length of 1130 km and a capacity of 6.6 cubic meters per second.
   (annual water supply capacity of 200 million cubic meters and development up to 400 million cubic meters per year)
- Water transmission line with a diameter of 2000 mm and a length of 780 km (from the Oman Sea to the border of Isfahan Province)
- Water transmission line with a diameter of 1600 mm and a length of 350 km (the length of northern line of Isfahan province is 175 km and the southern line is 175 km)

# Project Components

- > 15 pumping stations with a total pumping height of 3900 meters above sea level (each pumping station with a pumping height of about 150 to 280 meters)
- > 7 balance tanks with an approximate volume of 30,000 cubic meters for each tank.
- > Power transmission and distribution lines and high voltage substations
- > Class f combined cycle power plant with a capacity of 500-700 MW
- > Telemetry system and data transmission and remote control



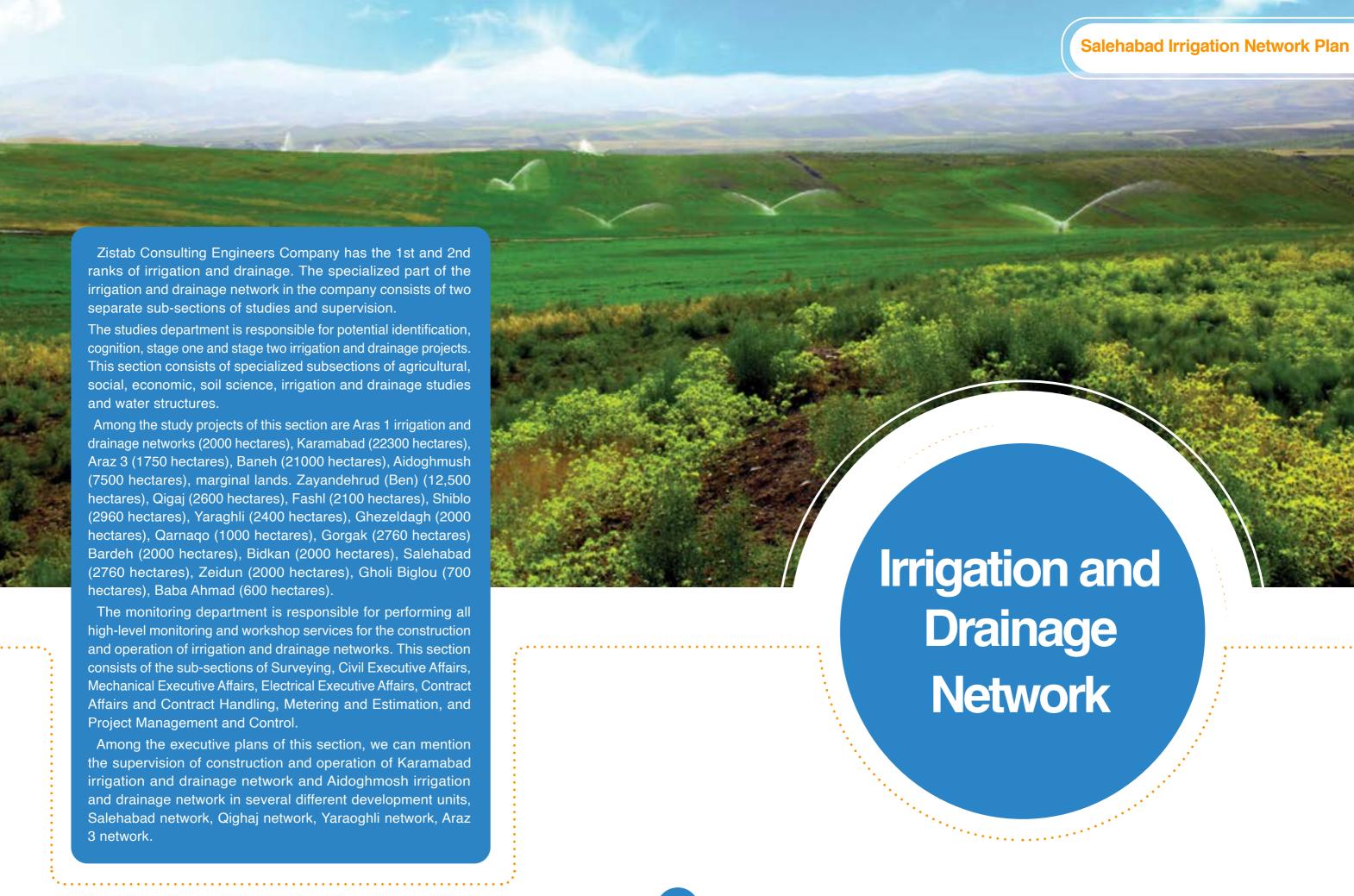
Karamabad Design Reservoir







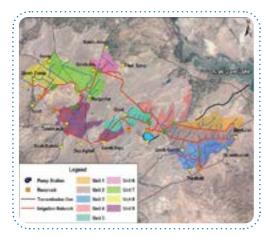








Selected Irrigation and Drainage Network projects



Irrigation and drainage network of Karamabad (main network)

Type of Service

1st and 2nd Phase Studies and supervision (3rd Phase)

Location

Poldasht and Shut Cities, West Azerbaijan Province, Iran

Client

> West Azerbaijan Regional Water Company

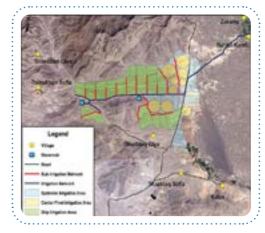
Objectives

**Project** 

Components

- Supplying the agricultural water demands of 23 villages in a 22,300 hectare area along the southern course of The Aras;
- > Utilizing Iran's water right (approximately 112 million cu. m);
- Irrigation method: Semi-portable sprinkler, center-pivot, and localized irrigation (drip tape) systems;
- Length of the transmission line: 21 km
- > Transmission line diameter: 2000 mm, steel pipe
- The length of the main line of the distribution network in nine construction units; 260 km
- > Pipe diameter: 450–20000 mm, steel, GRP, and PE pipes
- > Pumping stations in the network: 5
- > Pumping stations on the transmission line: 3
- Power consumption: 35 MW

### Selected Irrigation and Drainage Network projects



Restoration of National Lands in the Zeydoon Plain Area

Type of Service

1st and 2nd Phase Studies, Supervision (3rd Phase)

Location

Maku County, West Azerbaijan Province, Iran

Client

Land Bank

Objectives

Supplying the water demands of the 2090 hectares of farmlands on the southern shore of The Aras River;

Project

> Irrigation method: Sprinkler and drip irrigation systems;

> Length of the transmission line: 12.6 km;

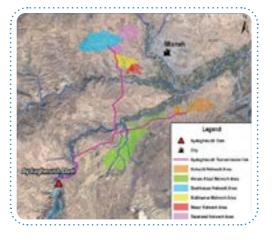
Project Transmission line diameter: 1000 mm fiberglass (GRP)
Components Pumping stations: 2

Pumping stations: 2Construction sites: 2

> Number of Farms: 20







Aydughmush Irrigation and
Drainage Network
(Akramabad, Dashkasan, Achachi Units)

Type of Service

2nd Phase Studies and Supervision (3rd Phase)

Location

Mianeh, East Azerbaijan Province, Iran

Client

> East Azerbaijan Regional Water Company

**Objectives** 

Supplying agricultural water demands and improvement of the lands downstream of Aydughmush Dam (Akramabad, Dashkasan, Achaji Units)

Objectives

> Area covered: 7600 hectares

> Construction sites: 6

> Irrigation method: Solid-set sprinkler, drip irrigation systems

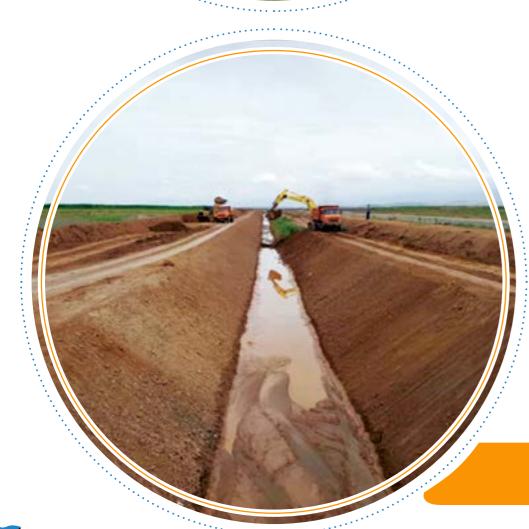
Project > Length of the main pipeline: 78 km

Components > The diameter of the main network pipes: 200–1000 mm

> Pipe material: PE, steel, GRP

> Pumping stations: 10

> Power consumption: 12 MW



Qigaj Irrigation Network

Yaraghli Irrigation

Network



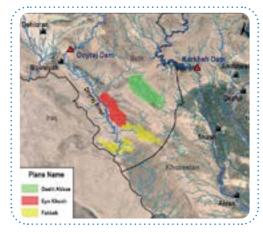








Selected Project management projects



Management Contractor of the Development of Irrigation and Drainage Network for 550,000 Hectares of Farmlands in the Karun–Dez–Karkheh Basin in Khuzestan and Ilam Provinces

### Type of Service

Management Contractor

#### Location

> Khuzestan and Ilam Provinces, Iran

#### Client

Jahad Nasr Institute

- Creating job opportunities and accelerating economic growth in impoverished parts of Iran;
- Increasing Gross Domestic Product (GDP) and achieving independence from imported goods, as well as creating exporting opportunities in future Phase;

#### **Objectives**

- > Water and underground resource management;
- > Agricultural production planning, control, and management;
- > Encouraging growth in dependent industries;
- Establishing a core population in the plan area, desert greening, and soil stabilization;

# Project Components

Projects in Fakkeh, Dasht-e Abbas, Halilan, Kanjacham, and Einkhosh in Ilam Province, as well as others in Abadan, Khorramshahr, North of Ahwaz, and farmlands around Karun and Dez Rivers in Khuzestan Province, with a total area of over 140,000 hectares.

# SelectedProject managemen projects



Management Contractor of the Irrigation and Drainage Subnetworks in Ilam Province

Type of Service

Management Contractor

Location

> Ilam Province, Iran

Client

West and Northwest of Iran Irrigation and Drainage Subnetwork Plan Administrator

Objectives

- > Economic promotion of the agricultural sector;
- > Encouraging population growth in the area through economic incentives;
- Reducing Iran's economic vulnerability to external political challenges through endogenous growth;
- Economic growth in the local agricultural sector;

- Doiraj project : 7585 hectares;
- > Kangir project : 1850 hectares;
- Meymeh project : 2700 hectares;
- > Garmsiri project : 17559 hectares;







**Management Contractor of the Zanjan Regional Water Company's Executive Plans** 

## Type of Service

Management Contractor

#### Location

> Zanjan Province, Iran

#### Client

> Zanjan Regional Water Company

### > Water Resources Management of Zanjan Province

Economic growth and prosperity of Zanjan province's drinking and industrial sectors

#### **Objectives**

- > Strengthening Resistance Economics Criteria
- > Expanding supply of drinking water and Zanjan industry to project horizon
- Expanding the supply of drinking water and industry to the city and surrounding villages to the horizon

#### Includes projects:

- > Moshampa Storage Dam and associated installations
- > Pave Rood irrigation network
- > Bluebin Storage Dam and Related Facilities

- Transfer of water from Mirzakhanlu Dam and treatment plant to the site of consumptionMarash Regulatory Dam and Marash Storage Dam
- > Transfer of water from the Marash Dam to the places of consumption
- > Pave Rood Storage Dam and associated facilities
- > Transmission of water from Moshampa Dam, treatment plant and associated facilities
- > Transfer of water from the Marash Dam to the places of consumption
- Dewatering and water transfer from Quchem Dam transmission line to Hamedan Province





# **Our Clients**



Ministry of Agriculture and Water Resources of Iraqi Kurdistan









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