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**PARS JOOYAB**  
**CONSULTING ENGINEERING.CO**

Founded: 1367  
Registration Number: 8360





## Pars Jooyab Consulting Engineering Co.

Pars Jooyab Consulting Engineering Co. is one of the grade 1 consulting companies in Iran's Water and Wastewater industry. By utilizing the latest knowledge, national and international standards, the valuable experience gained through years of service, benefitting from creative, professional and efficient human resources, and prioritizing the consistent improvement of quality in providing services, this company has reached a special and influential stage in the field of water and wastewater treatment and related operations, and it is fully prepared and qualified to perform professional activities in the areas determined by the qualified authorities. The qualification certificates obtained from the Planning and Budget Organization and the National Water and Wastewater Engineering Company are as follows:

- 📌 Grade 1 in project management, with specialization in water and wastewater facilities
- 📌 Grades 1 and 2 in water and wastewater facilities
- 📌 Repetition of grades 1 and 2 in water and wastewater facilities
- 📌 Grade 2 in irrigation and drainage networks
- 📌 Grade 3 in the environment
- 📌 Grade 3 in technical inspection
- 📌 Grade 3 in safety and risk reduction and passive defense
- 📌 Grade 3 in distribution network of gas pressure reduction stations
- 📌 Grade 3 in operation and maintenance of water treatment plants
- 📌 Grade 3 in operation and maintenance of wastewater treatment plants



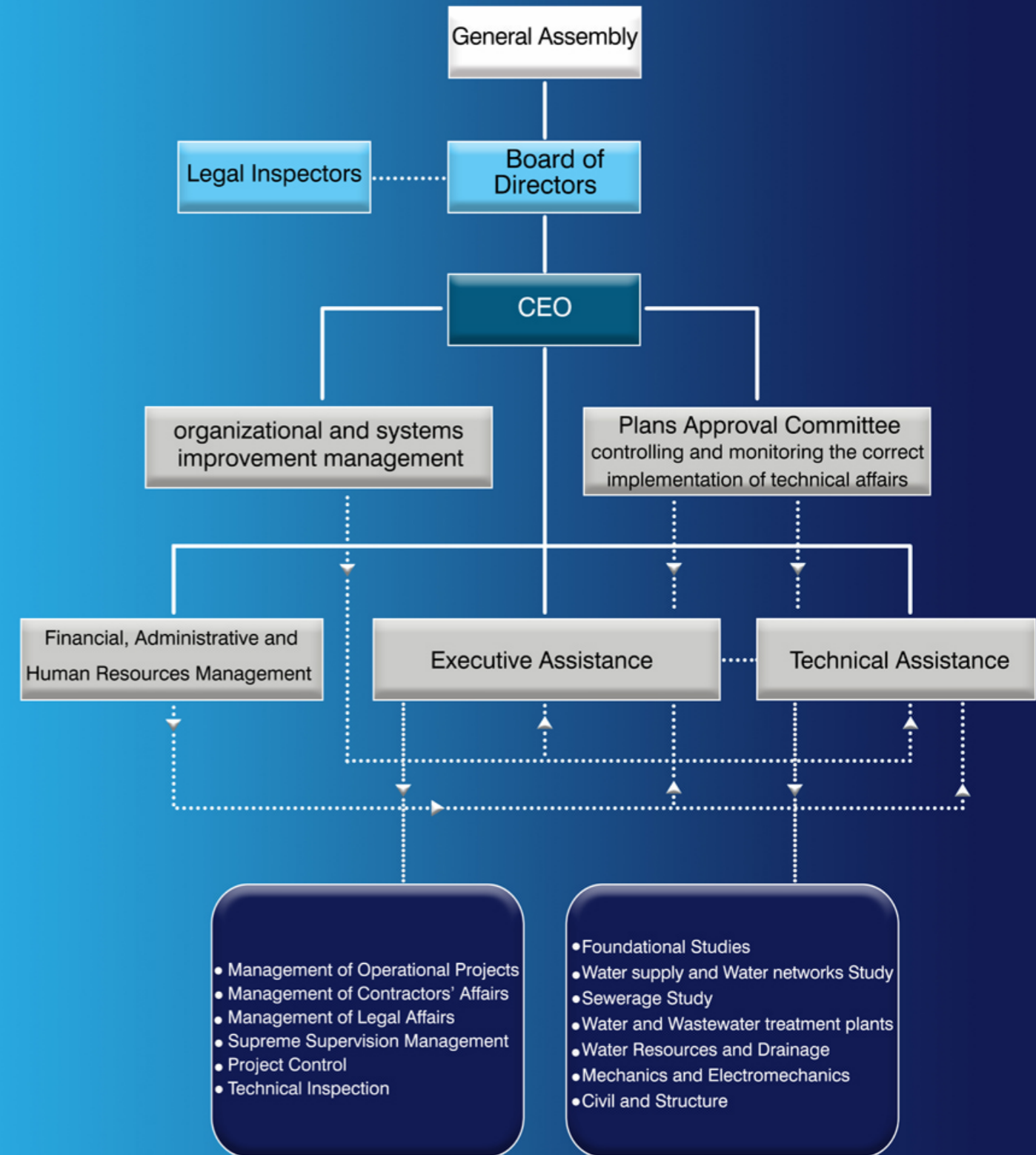
## Quality Assurance Certificate

Improving in the quality of services, and enhancing and increasing the efficiency have always been of great concern to the managers of the company. In this regard, the company established the quality management system according to ISO9001 standard and promoted this system in accordance with the reviews of this standard.

In order to establish the safety and health management systems and also environmental management system, the company has created the necessary foundation and processes to succeed in establishing the ISO45001 and ISO14001 standards, and it is noteworthy that after fully establishing these two systems along with the quality management system, the company could apply the management information system (MIS) and integrated management system (IMS).



## The Organizational Chart



## Company's Main Areas of Operation

- Conducting Studies and Supervision of Water Supply projects
- Conducting Studies and supervision of water transmission lines and water distribution networks
- Conducting Studies and supervision of treatment plants and water desalination systems projects
- Conducting Studies and supervision of wastewater networks, collection lines, transmission and disposal projects
- Conducting Studies and supervision of wastewater and sewage treatment and additional treatment projects
- Development and Improvement Studies of water and wastewater treatment plants
- Consultant in international projects funded by World Bank and Islamic Development Bank
- Main consultant and supervision of implementation of projects according to Design-Build method (EPC, DB, DBO)
- Main consultant and supervision of implementation of projects according to the Build-Operate-Transfer method (BOO, BOT)
- Main consultant and supervision of implementation of projects with internal and external funds
- Technical inspection, environmental impacts evaluation, passive defense
- Gas distribution networks studies
- Participation in Design-Build partnerships as a partner (EPC)
- Project management
- Holding seminars and educational courses and publishing books and guidelines

### ○ Studies and supervision of the operation of water harvesting, treatment and desalinating facilities

Studies on at least 8 urban drinking water treatment plants with a capacity of 1 to 3 m<sup>3</sup>/s, 8 units of desalination facilities with a capacity of up to 6 m<sup>3</sup>/s, water harvesting and related sewage treatment and disposal facilities, supervision on the operation of at least 4 water treatment plants and 2 units of water desalination treatment plants including

- Water treatment plant of the water supply project of Khoozestan's northeastern cities with a capacity of 3.1 M<sup>3</sup>/s
- Water treatment and desalination of Khalij Fars special zone's required water with a capacity of 4 M<sup>3</sup>/s
- Zahak treatment plant for the water supply of Zabol region with an enhanced capacity of 1.5 M<sup>3</sup>/s
- Saman city domestic water including water intake, transmission pipe line, treatment plant and water network with capacity of 120 L/S
- Industrial water production treatment plant for Azadegan, Yadavaran and Jafir oil fields. Two treatment plants and two additional treatment plants (desalination, demin, water deoxygenation) with a capacity of 200 L/S
- Industrial water production treatment plant for Marun production stations in the southern oil-rich regions

### ○ Studies and supervision of the operation of water supply lines and distribution networks

Conducting studies and supervising hundreds of projects related to transmission lines with capacities of up to around 5 m<sup>3</sup>/s and water distribution networks of cities with a population of more than 100000

- Water transmission lines and water supply of Khoozestan's northeastern cities and villages with a diameter of up to 54 inches
- Water supply project to the industries of Isfahan province from Gulf of Oman with steel pipes with a diameter of 1600 mm
- Main water transmission lines in Bushehr province with a diameter of 500 to 800 mm (steel-Fiberglass pipes)
- Main water transmission lines of the route from Zirdan dam to the treatment plant with a diameter of 1600 mm (GRP)
- Water distribution network of Anzali and Astara, Dalki, etc
- Water distribution network of Phase 2 of South Pars Field
- Water distribution network of different industries located in the 5000-hectare site of Khalij Fars Special Zone
- Water distribution networks of different uses of Chabahar Free Commercial and Industrial Zone
- Water distribution network of seven Khoozestan cities (Omidieh, Hendijan, Mahshahr, Aghajari and Shooshtar)

### ○ Studies and supervision of the operation of reservoirs and pumping stations

Conducting studies and supervising hundreds of reservoirs and pumping stations in different regions of the country

- reservoir of Ahvaz city 50000 M<sup>3</sup>
- reservoir of Ramhormoz city 20000 M<sup>3</sup>
- units of 15000 M<sup>3</sup> reservoir and pumping station of Zahak
- Wastewater pumping stations of Ahvaz city
- metal reservoirs of Azadegan and about 250 units of 150, 100, 50 M<sup>3</sup> metal water towers in Sistan 20000 M<sup>3</sup>
- reservoirs of Baghbanan Fooman, Omidieh, S5 Lahijan, Jahan Abad Shahinshahr 10000 M<sup>3</sup>



### ○ Studies and supervision of the operation of Waste water Collection networks and transmission lines

Conducting studies and supervising dozens of wastewater collection network and transmission lines projects around the country

- Main wastewater collection and transmission lines of Isfahan city
- Main wastewater collection and transmission lines of Ahvaz city with World Bank funding
- Wastewater collection network of Shahrood city
- Wastewater collection network of Abhar city

### ○ Studies and supervision of the operation of wastewater and sewage treatment plants and reusing sewage

Conducting studies and supervising at least 20 wastewater treatment plant units around the country

- Wastewater treatment plants of Daran, Harand, Ezhiyeh, Booyin & Miandasht, Varnamkhast
- Wastewater treatment plants of Shahrood and Abhar
- Wastewater treatment plants of Jey, Oshtorjan, Mobarakeh and Razi industrial Zones

### ○ Studies and supervision of the operation of agricultural or urban green space irrigation networks, and drainage and collection of surface water

- Collection of surface water of different sites of Chabahar Free Zone
- Water supply and irrigation network studies of Dasht Cheshmeh Rahman Semirom
- First and second phase studies of irrigation of green spaces of Baharestan, Najaf Abad, Khomeinishahr, Khorasgan, Yasooj, Rudasht, Niasar, Shahinshahr, Shahreza, Zarrinshahr and Sepahanshahr cities, and Amirkabir industrial zone

### ○ Studies and supervision of Design-Build projects (DBO, EPC)

- Supervision of wastewater projects in the villages of the central zone of Iran with the Islamic Development Bank funding (DBO)
- Supervision of the construction of Saravan pumping station in Sistan and Baluchestan province with maximum capacity of 682 L/S (EPC)
- Supervision of water supply of Azadegan and Yadavaran oil fields (EPC)

### ○ Studies and supervision of public-private partnership projects (PPB, BOO, BOT, EPCF, etc)

Conducting studies and supervising at least ten partnership projects including

- Participation in studies of wastewater treatment plants of 5 Khoozestan cities (including Abadan, Khorramshahr, Shadegan) in the form of(EPCF)
- Supervising the main lines of wastewater collection and transmission networks of Isfahan city in the form of(EPCF)
- Studies of water desalination systems for the water requirements of site 2 of Pars Field in the form of(BOT)
- Participation in the studies of Saba Steel treatment plant in the form of(EPC)

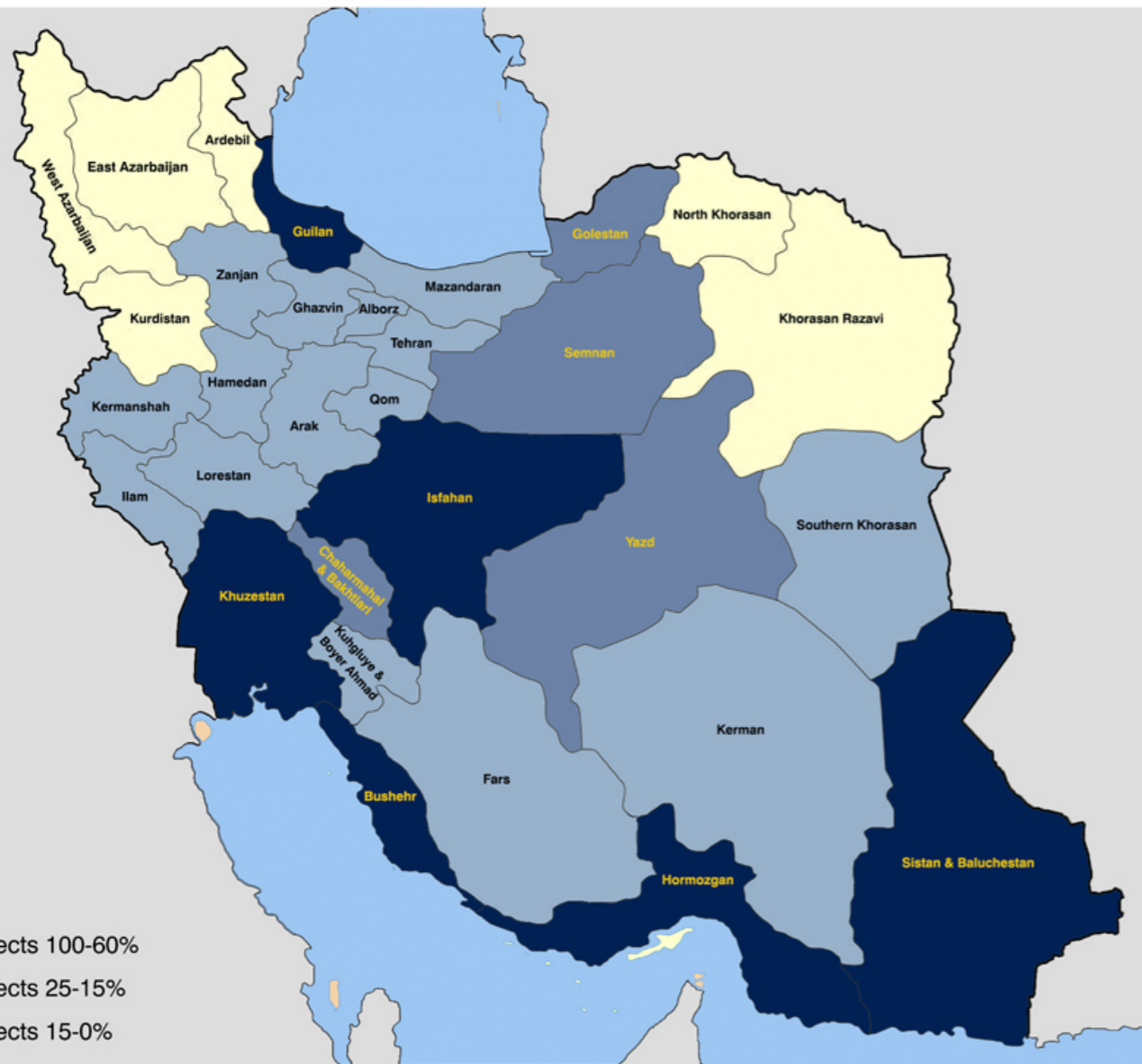
### ○ Technical Inspection Consulting Services

- The required pipes and facilities of the main wastewater network of Ahvaz city
- The required pipes and electrical and mechanical facilities of West Tehran (Alborz) Water and Wastewater Co
- The required pipes and facilities of different projects of Sistan & Baloochestan Water and Wastewater Co

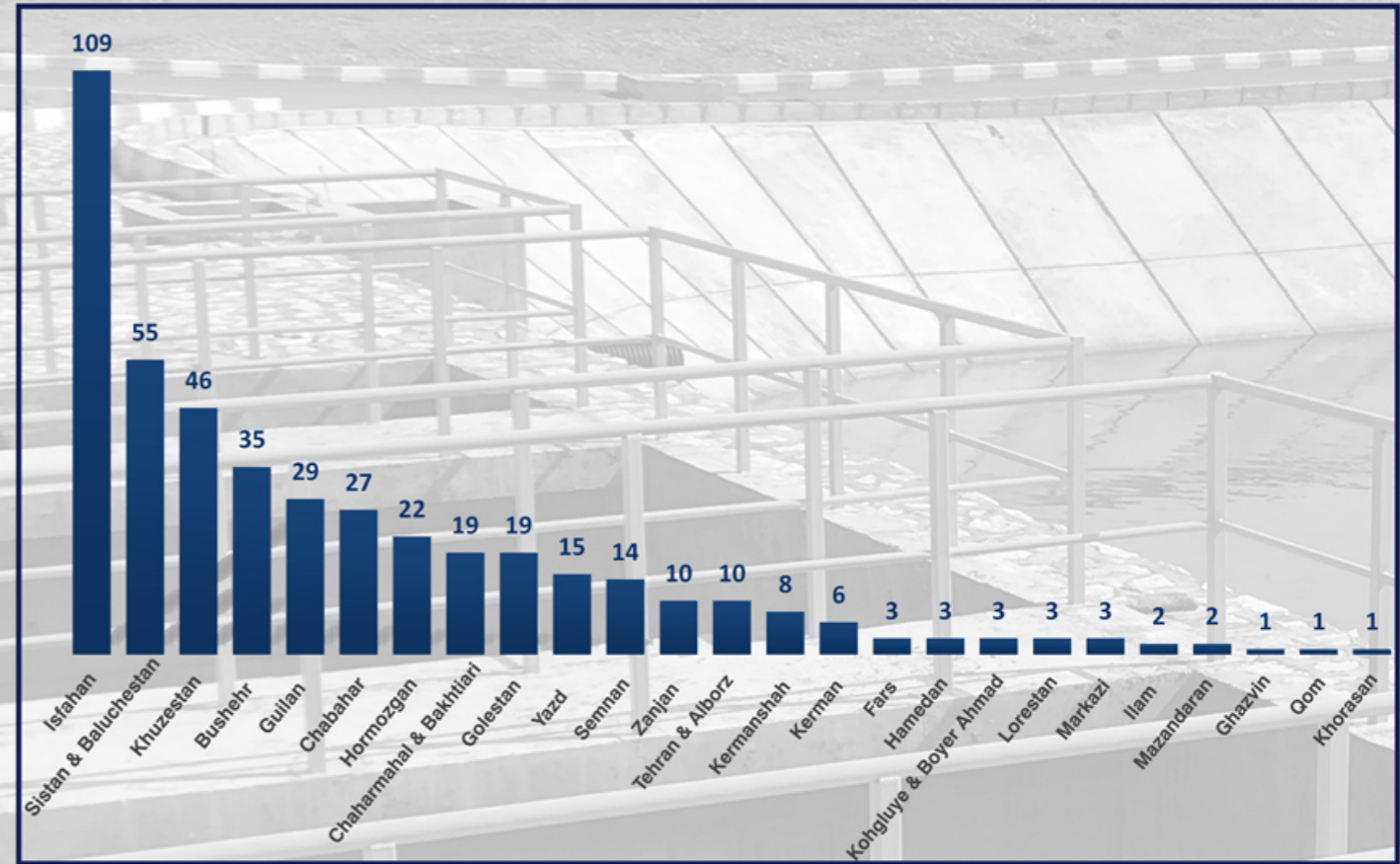
### ○ Project management consulting services

- Studies of water, wastewater, and collection and management of surface water in Chabahar Free Zone's Logistic Park

# The Range of Pars Jooyab Projects



- Projects 100-60%
- Projects 25-15%
- Projects 15-0%



Pars Jooyab Engineering Co. has been active throughout the country since 1367 with over 450 completed or running projects in the fields of urban and rural water and wastewater transmission lines and distribution networks, water catchment, water and wastewater treatment plants, reservoirs, water and wastewater pumping stations and other related activities

## The comprehensive water supply project to Sistan & Baloochestan province complexes

The comprehensive water supply plan to 936 villages of Sistan started in 1371. This plan includes over 1000 kilometers of main transmission lines, drinking water treatment plant with a capacity of 70000 m3 per day and the affected population of over 500000, with 3 units of 15000 m3 reservoir, pumping stations of Zahak and Qorqori, Chah Nimeh water catchment, plus more than 24 units of 100 and 150 m3 concrete water towers and 250 units of 100, 50 and 25 m3 metal water towers and 30 and 15 m3 ferrocement water towers.

In the water supply project to Baloochestan villages, water has been supplied to the east and west of Bampoor (59 villages). Water supply has been done to over 261 villages of Talang, Pelan and Pir Sohrab from Zirdan dam, and pipe installations with a diameter of 1400 mm has been done from Zirdan dam to Talang treatment plant with GRP pipes, and also water supply projects have been carried out to the villages of Mehrestan, Sib & Sooran, Khash and Delgan.

Water supply project of Bazman city has been completed and is in use. It was conducted from a distance of 40 kilometers from the city by constructing 4 deep wells with transmission lines of 400 mm, pumping station, wellhead stations, storage and mid-way reservoirs, electric power transmission facilities and pumping stations.

❖ Zahak Treatment Plant



❖ Transmission Line from Zirdan dam – Sistan & Baloochestan Province



❖ Water supply project to Saravan city – Pumping Station ❖ Floc clarifier of Zahak drinking water treatment plant



❖ reservoir of Zahak treatment plant 15000 M3



## The comprehensive water supply project to Guilan province complexes

The studies of the comprehensive water supply project to the villages of Guilan province started in 1370 by considering water supply to 104 villages which was expanded to more than 1042 villages in 15 cities with altitudes of less than 100 meters. The mentioned project includes digging and equipping 136 wells (deep, semi-deep and Felmann), constructing 226 pumping stations, constructing 106825 m<sup>3</sup> storage and pressure supply reservoirs with capacities of up to 10000 m<sup>3</sup>, construction of 10438 kilometers of water transmission lines and distribution network, and by the full operation of this project, 1059160 individuals will gain access to pure and healthy drinking water.

❖ Ductile Cast Iron water transmission line with a diameter of 800 mm



❖ S5 reservoir with a capacity of 10000 m<sup>3</sup> in Lahijan



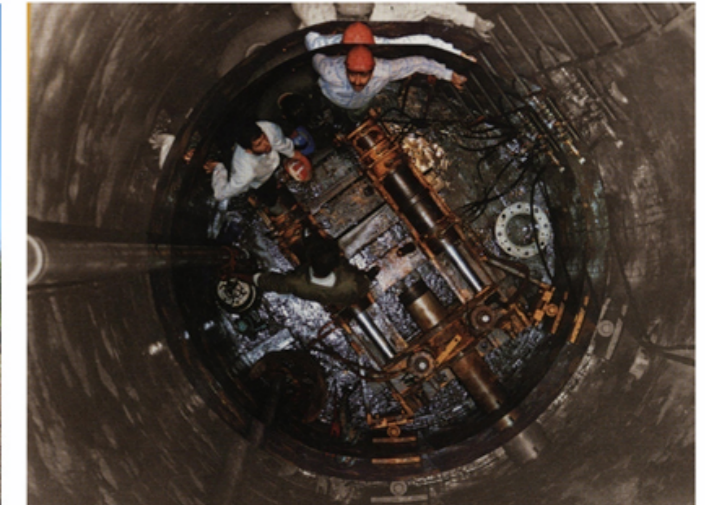
❖ Golshan Double-arch overpass in Gilan province



❖ Masal Wellhead Pumping Station



❖ Open and Felmann wells of East Gilan project



❖ A part of the water transmission line from S5 site to SW site





## The comprehensive water supply plan to Golestan province complexes

The studies of the comprehensive water supply project to the villages of Golestan province started in 1382. The mentioned project includes 1100 kilometers of water transmission lines, 1400 kilometers of distribution networks, ground reservoirs with a capacity of 45000 m<sup>3</sup>, water towers with a capacity of 500 m<sup>3</sup> and 45 water pumping stations. 700000 individuals are covered by this plan and its water requirement is considered to be around 1130 liters/second.

❖ Ramian 150 m<sup>3</sup> Concrete reservoir in Gilan Province



❖ 100 m<sup>3</sup> metal water tower in the border of Gonbad - Golestan



❖ Water transmission pipes connected to Manjelo bridge in Minoodasht



❖ Fajr 10000 m<sup>3</sup> concrete Ground reservoir in Minoodasht



❖ Ashorba 5000 m<sup>3</sup> reservoir in Golestan province



## The water supply project to Khuzestan's northeastern cities and villages

The comprehensive studies on water supply plan to Khuzestan's northeastern cities and villages targets water supply to 7 cities of Izeh, Baghmalek, Ghale Tol, Haftkel, Ramhormoz, Seydun and Meidavood, and 689 villages with agricultural water requirements supplied by Karoon 3 dam.

According to the 1395 census and projections for the year 1425, the population covered by this project is 735000, and according to the standards and legislations by the national Water and Wastewater Engineering Co., water requirement of this project for its development and finalization is estimated to be 11.1 m<sup>3</sup>/s.

The considered elements of this project with a capacity of 11.1 m<sup>3</sup>/s include water catchment, pumping station with an altitude of 250 meters, a 5 kilometer long water transmission tunnel with a diameter of 4.5 meters, 291 kilometers of water transmission lines in steel pipes with a diameter of 2000 to 350 mm, water storage reservoirs in the cities' upstream with a capacity of 109000 m<sup>3</sup>, and high voltage power post and grid with a capacity of 40 megawatts.



The drinking water treatment plant project with a capacity of 3.1 m<sup>3</sup>/s in different process options including conventional process and flotation process with the help of dissolved air (DAF) with the capacity for improvement in order to add absorption processes, has been studied and its relevant legislations have been passed.



## Water supply project to Azadegan, North Azadegan, Yadavaran and Jafir Oil fields

This project includes all the services of project design and engineering, materials and facilities supply, construction affairs, and installing and running the systems and the rest of the services in the EPC form for the integrated operation of harvesting, transmission, treatment, storage and distribution of the required water for the development of Azadegan, North Azadegan, Yadavaran and Jafir oil fields, plus installing more than 360 kilometers of GRE pipes

and constructing 20000 m<sup>3</sup> metal reservoirs, and spiral pile driving, conventional and additional treatment plants for the production of industrial water (desalination, demin and deoxygenation) and Karoon water catchment and desalination plants.

### ❖ Karoon Water Catchment



### ❖ Yadavaran Treatment Plant



## Qamsar Wastewater collection and treatment project

Qamsar Wastewater collection and treatment plant project in Kashan was completed despite the environmental problems and the special condition of the region in addition to being a tourist attraction, with an area of 630 hectares and 64 kilometers of collection lines with the diameters of 200-400 mm and STEG method of collection and wastewater package treatment plant with the MBBR method with a capacity of 400 m<sup>3</sup>/day in the first stage and 1200 m<sup>3</sup>/day in the final stage.



## Ahvaz city Wastewater collection project (funded by World Bank )

The feasibility studies of water and wastewater projects of Ahvaz and Shiraz started in 1381, and in 1383 after various inspections and reviews by Ahvaz Water and Wastewater Co. and World Bank, it was approved by the World Bank board of directors on 17 October 2004. This plan includes:

- Three wastewater pumping stations PSE2, PSE3 and AS13 with a pumping capacity of 450 liters/second for every electro pump.



- Wastewater projects transmission lines with diameters of 1000, 1200, 1400 and 1600 mm in concrete and the Polyethylene cover in the depths of 2 to 7 meters. The ground has been raveling, rocky, with flowing sand and high water level.
- An aeration tank including all the operations related to installing the aeration tank, new communication channels and related power substation and all the required electrical and mechanical facilities in the development plan of wastewater treatment plant of Chanibeh including the concrete installations of aeration tank and communication channels and power substation, provision, transportation and installation of aeration facilities and running and delivering it with all the related electrical and mechanical facilities.



## Shahinshahr wastewater facilities construction plan

Supreme and workshop supervision of modification and development projects of wastewater collection network and transmission lines in Shahinshahr (Gaz, Gorgab, Shahinshahr city)

- The projects of modifying the existing wastewater collection network with Polyethylene pipe with diameters of 150 to 800 mm covering about 6 kilometers.
- The projects of developing the collection network with Polyethylene pipe with diameters of 150 to 315 mm covering about 120 kilometers.
- The projects of developing the wastewater transmission lines with diameters of 400 to 1600 mm with Polyethylene pipes and concrete pipes constructed in trenches and tunnels in the depth of 3 to 12 meters covering around 11 kilometers.



In order to implement the transmission lines with high diameters, a new method named mechanized drilling in tunnels has been used. Accordingly, drilling the tunnel is done by the equipment and after completing the drilling part, pipes are installed in the tunnel by hand.



Supreme and workshop supervision:

- The project of constructing the 10000 m<sup>3</sup> sewage reservoir for green spaces of Shahinshahr, including the buried concrete reservoir with a storage capacity of 10000 m<sup>3</sup> and the related faucets room.
- The project of constructing the pumping station of green spaces of Shahinshahr, including the pumping station building equipped with 4 electro pumps with a capacity of 200 kilowatts, power substation and electrical panels building, filtration building, related faucets and also installing the control facilities and accurate tools.
- The project of sewage transmission line from storage reservoir to pumping station covering 7 kilometers in both directions with GRP pipes with diameters of 600 and 800 mm with related ponds.



## Wastewater facilities construction of Negin Residential Complex

The project of Negin wastewater collection from Kohandej street to Isfahan's northern treatment plant covering 22 kilometers with diameters of 1400 and 1600 mm with coated concrete, polymer concrete and two-shell polyethylene pipes has been done with pipe installation in the depth of 4 to 12 meters in busy urban streets.



## Wastewater collection facilities construction of Lenjan region

The project of wastewater collection of Lenjan region (Zarrinshahr, Chamgordan, Varnamkhast, Sedeh Lenjan and Zayanderood cities) was funded in partnership between Isfahan ABFA and Mobarakeh Steel Co. It includes collection lines and wastewater networks covering close to 300 kilometers, and construction of water pumping stations from Zarrinshahr and Varnamkhast treatment plant to Mobarakeh Steel Co.















## Wastewater treatment plant of Booyin Miandasht

Booyin wastewater treatment plant has been planned for over 17000 people. In this project, processes like conventional aerated lagoons, anaerobic pond, and 3 modules with a capacity of 832 m<sup>3</sup>/day have been used, and 2 of the modules have been in use.



## Some of the respected clients of Pars Jooyab Engineering Co.

 <p>Regional water company of Isfahan, Markazi, Chaharmahal &amp; Bakhtiari</p>	 <p>National Water &amp; Waste water Eng Company. Water &amp; Waste water companies in the provinces of Isfahan, Guilan, Sistan &amp; Baluchestan, Golestan, Khuzestan, Bushehr, chaharmahal &amp; Bakhtiari, Mazandaran, Yazd, Zanjan, Hormozgan, Lorestan, Kermanshah, Hamedan</p>	 <p>Chabahar Free zone C.F.Z</p>
 <p>Khuzestan Water and Electricity Organization</p>	 <p>Oil development and Engineering Company</p>	 <p>Pars Special Economic Energy Zone</p>
 <p>Esfahan Mobarakeh Steel Company</p>	 <p>Persian Gulf Mining and Metal Industries Special Economic Zone</p>	 <p>Isfahan Province Industrial Estates Company</p>
 <p>Tehran Municipality</p>	 <p>Isfahan Municipality</p>	 <p>Garmsar Special Economic Zone Administrating Company</p>

## Awards and Honors

- Certificate of appreciation from Ministry of Energy for the effective participation in the realization of the goals of “Har Hafte-alef-be-Iran” campaign – 1398
- Certificate of appreciation from the second festival of national engineering day, Isfahan province – candidate for the best company in consulting engineering field in 1391 in Isfahan
- Certificate of appreciation from Sistan & Baloochestan Water and Wastewater Co. – Operation of water supply project of Bazman city in 1390
- Certificate of appreciation from Isfahan Water and Wastewater Co. – completing the wastewater collector project of north and north west of Isfahan (Negin)
- Certificate of appreciation from the ninth Roshd congress entitled “investigating the reasons for the increase in time and expenses of water and wastewater projects” – 1389
- Certificate of appreciation from national Water and Wastewater Co. in the first congress of commemorating the activists of water and wastewater industry, for the valuable services of the company – 1387
- Certificate of appreciation from Ministry of Construction for the operation of the first phase of the huge water supply plan to 800 villages in Sistan







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