Tehran Sahab

Consulting Engineers















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C.E.O. Message

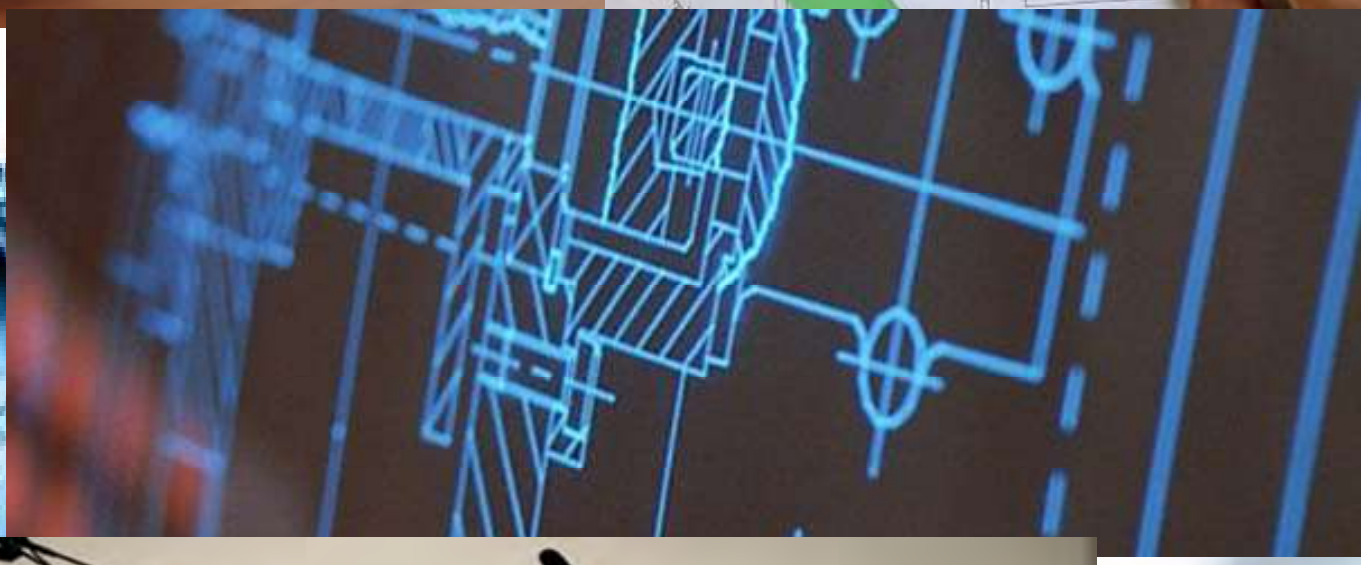
Our expert team in Tehran Sahab Consulting Engineers (TSCE) are trying to establish close relationships with our clients as a key element to achieve solutions to complex facility and construction related challenges. We believe that successful consulting is tangible through a balance of significant experience, a working knowledge of today's best practices, and access to up to date international Standards. We're always trying to be on a path of continuous improvement with continuously focus on Quality, Services, Innovation and Peak performance as a corporation to do our best.

Going forward, we will aim to establish abroad branches of company, considering what can be done to meet our client's expectations, taking appropriate actions, and providing values, as well as to build stronger and closer relationships of trust with all of our clients.

TSCE is a company that is driving Progress and building better communities with clients, through high quality, smart and efficient engineering services. The thing we have been doing consistently since 1987.

Amirhossein Sedaghat

C.E.O.& Member of the board



Tehran Sahab
Consulting Engineers

Tehran Sahab Consulting Engineers (TSCE) was established in 1987. TSCE, had been involved in advanced technology in the performing of the projects in planning, designing, Quality control and supervision of construction of dams, flood Control, hydraulic structures, such as diversion weirs, water conveyance by canals, regulation reservoirs, pumping stations, pipelines, service reservoirs, distribution Networks for municipal and industrial water supply, water and wastewater networks and treatment, irrigation and drainage networks, agricultural developments, reclamation and consolidation. TSCE has also gained experiences in contract management applied to the International Bank of Reconstruction and Development (IBRD) which offered partial finance for one of the largest flood control projects of Iran which undertaken by this consultant.

With such a background ,TSCE as a private organization in Iran and overseas acts as a voluntary and an independent consulting company whose stockholders are the firm's executives and key personnel.

Members of the board

Ebrahim Shahghasemi

Profession:
Water Resource & Environmental Engineering
Position: Member of the board

Education:

- BSc: Soil and Water Engineering, Ahvaz University, Iran, 1973.
- MSc: Soil and Water Engineering, Iowa State University, Iowa, USA, 1976.
- PhD: Water Resource Engineering, Iowa State University, Iowa, USA, 1980.
- PhD: Environmental Engineering, Iowa State University, Iowa, USA, 1980.

Experiences:

- Assistant Professor, Isfahan University of Technology, Department of Civil Engineering, 1980-1983
- Assistant Professor, Tehran University, Faculty of Engineering, Civil Engineering Department, 1988-2016.
- Senior Design Engineer, Pars Consulting Engineers Company, Tehran, Iran, 1983-1988. Director Manager,
- Tehran sahab Consulting Engineers, Tehran, Iran, 1986-1989.
- Member of Board ,Tehran sahab Consulting Engineers ,Tehran ,Iran1989 , -Present.

Members of the board

Mohsen Fotouhi

Profession: Geology
Position: Member of the board

Education:

- BSc: Geology, Tehran University, Iran, 1970.
- MSc: Water Resources, Middle Sex University, London, United Kingdom, 1978.
- MSc: Public Health Engineering, Middle Sex University, London, United Kingdom, 1978

Experiences:

- Director Manager of Water authority of Kermanshah province, Iran, 1978-1981.
- Senior Consultant Engineer of Pars Consultant Engineering Company, Iran, 1981-1983.
- C.E.O. of TSCE, Iran-1989 -2015.
- Ministry of energy
- Geologist and Exploratory drilling supervisor
- Head of water resource studies
- Hydrologist for groundwater studies
- Expert in project of water in wastewater western provinces of Iran

Members of the board

Shahin Pakrouh

Profession: Mechanical Engineering
Position: Member of the board

Education:

B.SC, Heat transfer and fluids Mechanics Engineer, AmirKabir University, Tehran, lran – 1992

Experiences:

Kurdistan Water and Waste Water Company (Ministry of Energy)
- Supervisor Expert (1993-1995)
- Project director (1995-1996)
- Vice President of Planning and Management Improvement division (1996-1997)
- Deputy of C.E.O. (1997-2002)
- C.E.O. and Chairman of the Board (2002-2011)

Kurdistan Regional Water Company (Ministry of Energy)
- C.E.O. of the Company (2011-2013)

Tehran Water and Wastewater Company (Ministry of Energy)
- Member of the board (2014-2023)

Iran Water and Wastewater Company (Ministry of Energy)
- Deputy of Coordination Management (2013-2017)
- Member of the board (2015-2016)
- Vice President of the Strategic and Operation Supervision (2017-2018)
- Vice President of Engineering and Development (2018-2022)

Tehran Sahab Consulting Engineers
- Vice Chairman of the Board (2022-Present)

Members of the board

Amirhossein Sedaghat

Profession: Hydraulic structures

Position: C.E.O. & Member of the board

Education:

- M. Sc. of Hydraulic structures Engineering, Iran University of Science and Technology (IUST), Tehran-Iran, 2002.
- Bachelor of Civil Engineering, Iran University of Science and Technology (IUST), Tehran-Iran, 1999.

MEMBERSHIP IN:

- Iranian Association of Water & Wastewater Experts
- Iranian Society of Consulting Engineers

Experiences:

- Designer of water and Energy Engineering department - TSCE – March 2008-now
- Hydraulic & Structure design Engineer - PÖYRY Energy Aug. 2007 - March 2008
- Structural Design Engineer - Kayson Co. - May 2007- Aug. 2007
- Hydraulic & Structure design Engineer – TSCE - Nov. 2006 - Jul. 2007
- Structure design Engineer - Shimbar co. - Jun. 2005 - Oct. 2006
- Hydraulic & Structure design Engineer - Armand-ab Co. - Nov. 2003 - Jun. 2005
- Hydraulic & Structure design Engineer – TSCE - Sep. 1999 - Nov. 2003

Certificates

Islamic Republic of Iran
Vice- Presidency for Strategic Planning and Supervision

Date: May 29, 2013

Certificate of Consulting Services Qualification

Dear Mr. Mohsen Fotouhi
Managing Director of Tehran Sahab Consulting Engineers Company, registered under No. 63506

On the strength of approval of board of ministers under No. H28437T/20637 dated July 13, 2004, and according to ascertaining necessary conditions and confirming the qualification of the mentioned company in executive technical system factors qualification general system, the qualification of said company for performing consulting services is hereby approved from date of issue of this certificate up to end of evaluation period and maximum May 27, 2017.
National ID No. 10101084998
You are kindly requested to refer to http://pmn.mporg.ir for visiting the details of issued certificate. It is necessary to observe tenders holding law as per approval No. 130890 dated Feb. 5, 2005, related executive bylaws and allowable working capacity upon referring works to the mentioned company.

Signed and sealed by Strategic Supervision Deputy
True Translation Certified. 11c/7179-Navabi. Mar. 15, 2014

19 MAR 2014 49535

Certificate CH09/1456

The management system of

Tehran Sahab Consulting Engineers Co.

No. 56, Joolbar St., Fatemi Sq., Tehran, Iran

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities

Design and supervision of projects in the following fields:
- Water and wastewater engineering
- Irrigation and drainage networks
- Dam engineering
- River training & control

This certificate is valid from 19 October 2021 until 18 October 2024 and remains valid subject to satisfactory surveillance audits
Recertification audit due before 19 September 2024
Issue 5. Certified since October 2009

Authorised by

SGS Société Générale de Surveillance SA
Technoparkstrasse 1 8005 Zurich Switzerland

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Registrations and official Certificates of the Company

مشخصات گواهینامه

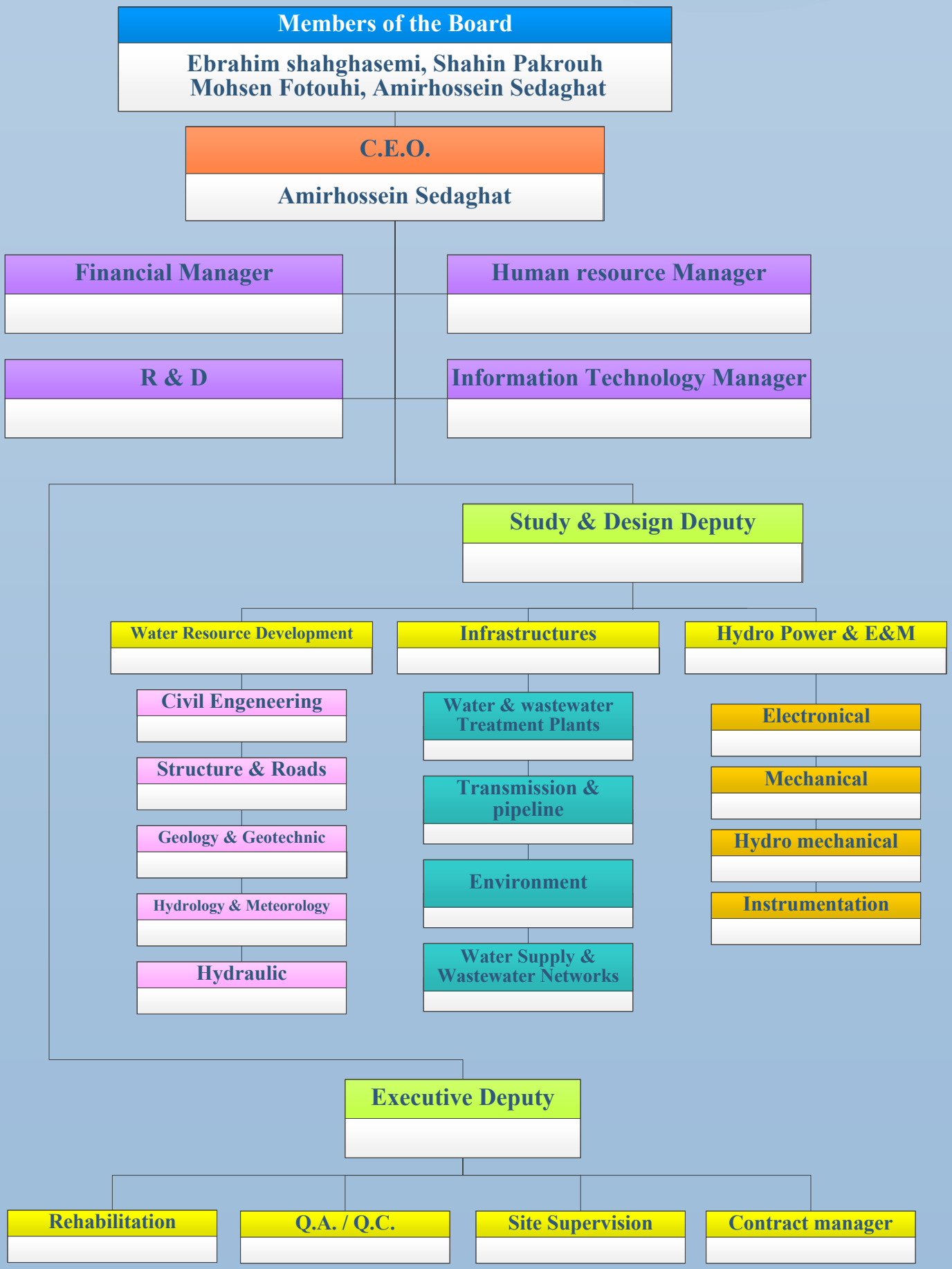
گواهینامه صلاحیت خدمات مشاوره

جامعه مهندسان مشاور ایران
Iranian Society of Consulting Engineers

گواهینامه عضویت
Certificate Of Membership

نام شرکت: Company Name:
تهران سحاب Tehran Sahab
تاریخ تأسیس: Date of Establishment:
۶۵/۱۱/۰۸ 1987
تاریخ عضویت: Date of Membership:
۶۹/۱۲/۱۲ 1991
شماره عضویت: Registration Number:
۲۲۹۶ 2296
عضوگروه های تخصصی: Membership Groups:
منابع آب Water Resources
تأسیسات شهری Water And Sewerage Systems
سدسازی Dam

Organization Chart



Establishment and Registration

- **Ownership:** Private
- **Date of establishment:** 1987
- **Type of Company:** P.J.C

Registration Data:

- **Registration No:** 63506
- **Registration Date:** 1987
- **Registered in:** I.R. Iran

Field of Activities

National Ranking Grades

- Grade A of dam designing projects
- Grade B of drainage and Irrigation networks projects
- Grade A of sewage and Water supply system design projects
- Grade B of river Engineering and Protection projects
- Grade C of Structure Design projects
- Grade C of Environment projects
- Grade C of Road projects

Main Field of Activities

- Studies of comprehensive plans of water resources
- Design and Studies of flood control systems
- Design and Studies of drainage and irrigation networks
- Design and Studies of agriculture and internal field operation
- Design and Studies of diversion and storage dams
- Design and Studies of collection and disposal of surface waters
- Design and Studies of water supply, Transmission and distribution systems
- Design and Studies of water conveyance systems
- Design and Studies of sewage and water- treatment plants
- Design and Studies of Hydropower Plants
- Design and supervision of Roller Compacted Concrete Dams.


Chamshir Dam

Services

Types of Services

The types of consulting services by TSCE cover the following phases of project developments:

- Feasibility Studies
- Basic Design and Detailed Design
- Master Planning
- Technical Specification Preparation
- Tender Documentation Preparation
- Evaluation of tenders and assistance
- Supervision of construction
- Quality Control And Assurance Services
- Operation and maintenance management of project and facilities
- Training of operation and maintenance staff
- Post evaluation of the project

Cooperations

INTERNATIONAL COOPERATION

Tehran Sahab Consulting Engineers Company has many experiences in Cooperating with other International Engineering and technical services like National Engineering Services of Pakistan Company (NESPAK). Also, the Company has done different studies internationally.

Different stages of Activities:

- Preparation of as built Drawings
- Preparation of Tender Documents
- Preparation of special and general technical specifications of plans
- Preparation of contract documents

Tehran Sahab Consulting Engineers have been composed of Iranian Engineers, Technicians, service and administrative personnel and also can cooperate with foreign experts depends on the specifications of Projects.

Membership and Collaboration

Associations

TSCE has a foreign associate i.e., NESPAK, National Engineering Services of Pakistan (Pvt) Ltd. who, collaborates in specialized area as and when required.

TSCE participates with various organizations at the national and international levels, government, public, and private, institutions and associations that are considered to be instrumental in enhancing as:

- World Bank
- Islamic Development Bank (IDB)
- Iranian National Committee on Large Dams (IRCOLD)
- Iranian Association of Water and Wastewater Experts
- Iranian Hydraulic Association(IRCE)
- Iranian Society of Consulting Engineers

A Brief List Of performed Projects in TSCE

- Comprehensive studies of water resources
- Studies related to surface water collection and disposal
- Study and design of flood control
- Studies related to city water supply transmission and distribution
- Studies related to irrigation and drainage networks
- Studies related to storage and diversion dams and artificial recharge
- Studies related to agriculture and in – farm development.
- Studies related to water and wastewater treatment plants.

All above mentioned activities will be provided in different levels of study as follow :

- Studying different alternatives and introducing the best one.
- Preparing detail drawings
- Preparing the bill of quantity and cost estimation.
- Preparing general and specific technical specifications
- Preparing tender and contracts documents
- Supervising the project implementation
- Preparing the periodic and final statement
- Preparing the required manual for operation and maintenance

Cheshmehashegh Dam

Departments and activities

Water Resources Development

- Cham- e- shir storage dam and power plant in Kohkiluyeh and Boirahmad province.
- Chahnimeh- 4 dam in Sistan and Baluchistan province
- Meyjaran storage dam in Mazandaran province.
- Cheshmeh Ashegh storage dam in Fars province.
- Saradan artificial recharge dam in Sistan and Baluchistan province.
- Shahghasem storage dam in kohkiluyeh and Boirahmad province.
- Farim sahra storage dam in Mazandaran province.
- Studies related to optimum usage of Sistan and Baluchistan rivers water
- Comprehensive studies on Zohre and Maroon rivers in Kohkiluyeh and Boirahmad province.
- Emamzadeh Jafar (Naserabad) Artificial recharge dam in kohkiluyeh and Boirahmad province
- Sarshileh dam stabilization project in Sistan and Baluchistan province.
- Waste storage dam project for saghand Uranium oxide production plant in Yazd province.
- Small hydropower plant projects in Kohkiluyeh and Boirahmad province.
- Cham-e-shir power plant project in Kohkiluyeh and Boirahmad province.
- Independent outlet project for operation of Chahnimeh-4 reservoir in Sistan and Baluchistan province.

Departments and activities

List of Projects

- **Water Transport and Distribution System**
  - A. Networks
    - *** Water and Wastewater treatment**
    - *** Water Treatment Plants**
    - *** Wastewater Treatment Plants**
  - B. Wastewater treatment plants
  - C. Pipelines
  - D. Water treatment plants
- **Irrigation and Drainage Networks**
- **Dam & Hydropower Projects**
- **Flood Control and River Training**

Chalus&Nowshar,WWTP

Departments and activities

A. NETWORKS

1. Sanitary sewer network of Oushan, Fasham and Maigun cities, in Mazandaran province, Iran.
2. Sanitary sewer network of Lavasan city, in Tehran province, Iran.
3. Sanitary sewer network of Dehdasht city, in Kohgiluyeh and boyer-ahmad province, Iran.
4. Sanitary sewer network of Dogonbadan city, in Kohgiluyeh and boyer-ahmad province, Iran.
5. Sanitary sewer network of Langerood city, in Giulan province, Iran.
6. Sanitary sewer network of Chaloos and Nowshahr cities, in Mazandaran province, Iran.
7. Sanitary sewer network of Asadabad city, in Hamedan province, Iran.
8. Sanitary sewer network of Konarak city, in Sistan & baluchestan province, Iran.
9. Sanitary sewer network of Sahand new city, in East Azerbaijan province, Iran.
10. Sanitary sewer network of Saqqez city, in Kurdistan province, Iran.
11. Sanitary sewer network of Pardis new city, in Tehran province, Iran.
12. Sanitary sewer network of Mamonieh city, in Markazi province, Iran.
13. Sanitary sewer network of Zavieh city, in Markazi province, Iran.
14. Sanitary sewer network of Abadeh city, in Fars province, Iran.
15. Sanitary sewer network of Javanrood city, in Kermanshah province, Iran.
16. Revision studies of wastewater of Chaloos and Nowshahr cities, in Mazandaran province, Iran.
17. Sanitary sewer network of Ivan and Sarabeleh cities, in Ilam province, Iran.

Departments and activities

B. WASTEWATER TREATMENT PLANTS

1. Wastewater treatment plant of Lavasan city, in Tehran province, Iran.
2. Wastewater treatment plant of Oushan, Fasham and Maigun cities, in Mazandaran province, Iran.
3. Wastewater treatment plant of Asadabad city, in Hamedan province, Iran.
4. Wastewater treatment plant of Chaloos and Nowshahr cities, in Mazandaran province, Iran.
5. Wastewater treatment plant of Saqqez city, in Kurdistan province, Iran.
6. Wastewater treatment plant of Konarak city, in Sistan & baluchestan province, Iran.
7. Wastewater treatment plant of Dehdasht city, in Kohgiluyeh and boyer-ahmad province, Iran.
8. Wastewater treatment plant of Langerud city, in Giulan province, Iran.
9. Wastewater treatment plant of Pardis city, in Tehran province, Iran.
10. Wastewater treatment plant of Mamonieh and Zavieh cities, in Markazi province, Iran.
11. Wastewater treatment plant of Sahand city, in East Azerbaijan province, Iran.
12. Wastewater treatment plant of Abadeh city, in Fars province, Iran.
13. Wastewater treatment plant of Javanrood city, in Kermanshah province, Iran.
14. Wastewater treatment plant of Ivan and sarabeleh cities, in Ilam province, Iran.
15. Wastewater treatment plant of Dogonbadan city, in Kohgiluyeh and boyer-ahmad province, Iran.



Larestan, WTP

Departments and activities

C. PIPELINES

1. Project of water supply, transport, and storage and distribution network of Chaloos and Nowshahr cities, in Mazandaran province.

2. Project of water transport from Mogarmoon to lend district in Kohkiluye and Boirahmad province.

3. Project of water transport, storage and distribution network of yasouj, Dehdasht and Dogonbadan, in kohgiluyeh and boyer-ahmad province.

4. Project of water supply, storage reservoir and distribution network, Kelardasht, Katalem and Sadatshahr cities, in Mazandaran province.

5. Project of water supply from Roodbal dam to Darab, Janatshahr, Hajiabad cities and villages located in the transport path, in Fars province.

6. Complementary studies of water supply from Arak city's water treatment plant to water storage reservoir in Markazi province.

7. Project of water transport from Shive River to Emamzade Jafar, in kohgiluyeh and boyer-ahmad province.

8. Project of water supply, transport and distribution for Arak city, in Markazi province.

9. Project of water supply, transport and distribution for Gonbad city, in Golestan province.

10. Water supply project from Salman Farsi dam to Lavasan district, in Fars province.

11. Water supply project of Ivan, Sarabele and Darehshahr, in Ilam province.

12. Water supply project of Pardis new city, in Tehran province.

13. Water supply project of Sahand new city, in east Azerbaijan province.

14. Water supply project of Dehdasht and Kelachoo cities, in Kohgiluyeh and boyer-ahmad province.

15. Second phase studies of connection pipeline between Arak city's storage reservoirs and water treatment plant, in Markazi province.

16. Water transport Project from Meyjaran dam to Ramsar, Katalem and Sadatshahr, in Mazandaran province

Departments and activities

D. WATER TREATMENT PLANTS

The following projects were implemented by TSCE in water treatment plants field:

1. Water treatment plant of Larestan city, in Phars province, Iran.
2. Water treatment plant of Arak city, in Markazi province, Iran.
3. Water treatment plant of Ramsar city, in Mazandaran province, Iran.
4. Water treatment plant of Darab city, in Phars province, Iran.

IRRIGATION AND DRAINAGE NETWORKS

The following projects were implemented by TSCE in Irrigation and drainage networks field:

1. Irrigation and drainage network of Roum plain in kohgiluyeh and boyer-ahmad province.
2. Irrigation and drainage network of Choram plain in kohgiluyeh and boyer-ahmad province.
3. Irrigation and drainage network of Kakan plain in kohgiluyeh and boyer-ahmad province.
4. Irrigation and drainage network of Sarvak plain in kohgiluyeh and boyer-ahmad province.
5. Irrigation and drainage network of Farim sahra in Mazandaran province.
6. Project of improving the Roodbal district irrigation in kohgiluyeh and boyer-ahmad province.

Departments and activities

DAM & HYDROPOWER PLANTS

1. Cham- e- shir storage dam and power plant in Kohkiluyeh and Boirahmad province.

2. Chahnimeh- 4 dam in Sistan and Baluchistan province

3. Meyjaran storage dam in Mazandaran province.

4. Cheshmeh Ashegh storage dam in Fars province.

5. Saradan Artificial feeding dam in Sistan and Baluchistan province.

6. Rehabilitation of Shahghasem storage dam in kohkiluyeh and Boirahmad province.

7. Farim sahra storage dam in Mazandaran province.

8. Studies of optimum operation from Sistan and Baluchistan rivers water

9. Comprehensive studies of river water resources operation from Zohre and Maroon rivers in Kohiluyeh and Boirahmad province.

10. Emamzadeh Jafar (Naserabad) Artificial feeding dam in kohkiluyeh and Boirahmad province

11. Sarshileh dam stabilization project in Sistan and Baluchistan province.

12. Waste storage dam project for saghand Uranium oxide production plant in Yazd province.

13. Small hydropower plants project in Kohkiluyeh and Boirahmad province.

14. Cham-e-shir power plant project in Kohkiluyeh and Boirahmad province.

15. Independent outlet project for operation of Chahnimeh-4 reservoir in Sistam and Baluchistan province.

Departments and activities

Flood Control and River Training

1. Contract No.c-11: Preparation and production of Riprap beach bank.

2. Contract No.C-12: Weir of Niatak floodway canal and related works.

3. Contract No.C-13: Niatak river pembankments from station +000 to 12+000

4. Contract No.C-14: Niatak river embankments from station 12+000 to Hamun.

5. Contact No.C-15: Bridges and flume of Niatak floodway canal.

6. Contract No.C-20: Rebuild and widening of canal feeder.

7. Contract No.C-30: Culverts for bridge of water stream.

8. Contract No.C-02: Offshore embankments of Hamun Lake at the zone of poshte ab Miankangi and related works.

9. Contract No.C-03: Offshore embankments of Hamun Lake at the zone of shibe ab and related works.

10. Contract No.c-01A: Sistan river embankments and related works at upstream of Sistan dam.

11. Contract No.C-01B: Sistan river embankments and related works at downstream of Sistan dam

Meyjaran Dam

Professional Experiences

Dam & Hydropower

Crest Length (m)	Reservoir Volume at NWL (million m3)	Volume of Regulated Water (million m3)	Spillway Type	Spillway Capacity (CMS)	Power Generation Capacity (MW)	DamBody Type	Dam Body Volume (m3)
Zabol Storage Dam (Chahnime4)							
15,775	810	600	Gated	None	None	Earth Fill Dam	17,000,000
Saradan Dam							
373	9.3	13	Ogee	1585	None	CCED	450,000
Meyjaran Storage Dam							
180	8	12.5	Side Channel	300	None	ACCRD	385,500
Cheshmeh Ashegh Storage Dam							
360	69	70	Free Ogee	1156	None	Gravity RCC	350,000
Cham-e-Shir Dam and Hydro Power							
580	2300	1400	Gated	8000	176	RCC	1,300,000
Shah Ghasem Dam							
220	9	12	Free Ogee	72	none	CCED	575,000
Yasouj,Micro Hydro Power Plants							
–	–	–	–	–	20	–	–

CCED: Clay Core Earthfill Dam
RCC: Roller Compacted Concrete
ACCRD: Asphaltic Concrete Core Rockfill Dam

Professional Experiences

Infra Structures

- **Waste Water Treatment Plant**

Location	Plant Capacity (m^3/day)	Study Plant Module	Study Project Population	Implemented Module	Date of Operation	Treatment Process
Chaloos Nowshahr Wastewater Treatment Plant						
Mazandaran Province	40,000	4	180,000	1	2009	Extended Aeration
Oshan City Wastewater Treatment Plant						
Tehran Province	750	2	8,000	1	2010	SBR
Asadabad City Wastewater Treatment Plant						
Hamedan Province	20,000	4	100,000	2	2012	Aeration Pond
Saqqez City Wastewater Treatment Plant						
Kordestan Province	44,000	3	220,000	3	2010	A2O
Dehdasht Wastewater Treatment Plant						
Kohkilouye Boyerahmad	18,794	2	80,000	1	1387	Activated Sludge

Professional Experiences

Infra Structures

- **Waste Water Treatment Plant**

Location	Plant Capacity (m^3/day)	Study Plant Module	Study Project Population	Implemented Module	Date of Operation	Treatment Process
Langroud City Wastewater Treatment plan						
Guilan Province	21,500	3	105,000	3	1405	Activated Sludge, Extended Aeration
Abadeh City Wastewater Treatment plan						
fars Province	20,000	1	54,500	1	1415	Lagon
Lavasan City Wastewater Treatment plan						
Tehran Province	12,600	1	55,000	2		Activated Sludge
Ramsar City Wastewater Treatment plant						
Mazandaran Province	35,424	2	105,000	4	1415	Activated Sludge
Ilam City Wastewater Treatment plant						
Ilam Province	3,245	3	16,000	2	1410	Activated Sludge


Darab WTP

Professional Experiences

Infra Structures

- **Collection Networks and Transfer lines**

Sewage flow rate (m^3/day)	Length of wastewater Collection Network (km)	Length of Wastewater Transfer Line (km)	Diameter of Wastewater Collection Network (km)	Type of sewer pipe
Oshan				
1500	8.8	–	200-300	P.E
Fasham				
1500	9	–	200-300	P.E
Meygoon				
1500	15	–	200-300	P.E
Lavasoon				
12600	Phase1:10, Phase2:35	2.7	200-700	P.E
Dehdasht				
First Step:12063, Second Step:18794	117	3	200-800	P.E- GRP-Reinforced Conceret
Dogonbadan				
21250	100	7	200-800	P.E- GRP-Reinforced Conceret



Professional Experiences

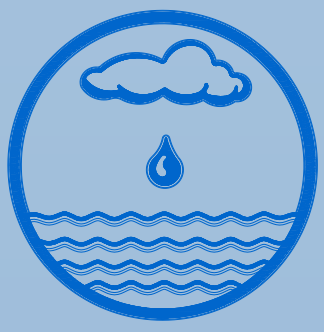
Infra Structures

- **Collection Networks and Transfer lines**

Sewage flow rate (m^3/day)	Length of wastewater Collection Network (km)	Length of Wastewater Transfer Line (km)	Diameter of Wastewater Collection Network (km)	Type of sewer pipe
Langrood				
21500	160	5.5	200-900	P.E- GRP-Reinforced Conceret
Chaloos and Noshahr				
65953	200	3.15	200-1000	P.E- GRP- Steel
Asadabad				
20920	95	4	110-800	P.E- Concrete
Konarak				
8936	38	6	200-500	P.E
Saqqez				
36240	12	2.2	200-1400	P.E- Cast iron- GRP- Concrete



Saqqez WWTP



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