

M. Kargarbedaf
Chief design Engineer
Zayandab Consulting Engineers
Isfaha 81735-473, Iran

2/25/2013

To whom it may concern

Dear Sir / Madam,

This is to introduce myself, MortezaKargar, as chief design engineer in Zayandab Consulting Engineers, Isfahan, Iran. I found your company a globally-recognized and reputed organization and therefore, would like to use this opportunity and present my CV for possible considerations in any vacant position you may have.

For your information, I have years of experience in different disciplines of water and wastewater industries. A comprehensive list of the projects I worked in during my career is presented in the attached CV. Please also don't hesitate to contact me in the case you need further information.

I look forward to hearing from you.

Kind regards

Morteza Kargarbedaf

Curriculum vitae

Morteza kargar , BSc

Zayandab Consulting Engineers CO. , Isfahan , Iran

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Email: m_kargar56@yahoo.com

DoB:1977; Nationality:Iranian

Education

1977-2000

Shahid Beheshti University, Tehran, Iran

BSc in Environmental Engineering

Department of Eevironmental Engineering

Research Interests

• Hydraulics and Fluid Mechanics; Water and Wastewater Treatment Design; Pollution Transport Modeling in Surface and Ground Water Resources; Membrane Technology; Water Reuse

Research Projects

- Evaluation of water treatment plants of Tehran ,Isfahan,Yazd and Kashan
- Evaluation of dual and triple media filters of Isfahan water treatment plant
- Application of PACL and FeCl_3 for chlorophyll "a" removal in effluent of Isfahan wastewater treatment plant
- Assessment of effluent quantity and quality of Isfahan wastewater treatment plant
- Comparison of UABR and UASB reactors
- Evaluation of SBR reactor for removal of Nitrogen and Phosphorus
- Evaluation of piping types DCI, Steel, PE and GRP against water hammer
- Evaluation of pneumatic and electrical valve for water treatment plant at cold climate
- Economic and environmental assessment of water and wastewater projects
- Evaluation of coagulants PACL, Alum and Ferric at cold water

Skills

- **Operating System:** Windows XP-Windows 7
- **Technical Applications:** ArcGIS – AutoCAD - Epanet – Matlab-Water Gems V8i(ss1,2,3)-Sewer Gems V8i(ss1,2)-Water Cad-Hammer V8i(ss1,2,3)-Air Valve-Steady-Land and Civil Development-Map Source-HEC RAS 4.1-EGOUT
- **Microsoft Application:** Word – PowerPoint – Excel-M.S Project

Publications

Kargar, M. 2012. Comparison of advanced desalination technologies. National conference on water provision in Bushhr province, Iran.

Sookhak Lari, K., **Kargar** . 2012. Restricted rehabilitation of existing water treatment plants. Journal of Water, Sanitation and Hygiene for Development (under review)

Professional activities (Brief)

Executive (Iran)

2011-present

ZaayandAb Consulting Engineers

Chief design engineer. Department of water and wastewater design.

- **Design of water trasmission and distributin systems**, Isfahan city
- **Design of water treatment plant** , Isfahan city (capacity:10-15 m³/s)
- **Modification of hezar jerib pump station** , Isfahan city
- **Design of sanitary sewer collection and transmission** , Farsan city
- **Design of East Isfahan wastewater plant effluent reuse plan for consumption in Marshenan steel industries.**
- **Design of pump station and transmission plan for transport of east Isfahan wastewater treatment plant effluent to Marshenan steel industries.**
- **Design of sanitary sewer collection and transmission** , Chermahein city
- **Design of wastewater treatment plant** , Chermahein city
- **Upgrading Baghbahadoran wastewater treatment plant,conversion Processes from Extended Aeration to IFAS** , Baghbahadoran city
- **Design of intake effluent of Isfahan east wastewater treatment plant, distribution and flowmeter**, Isfahan city

2006-2011

Tarh afra Consulting Engineers

Chief design engineer and project manager. Department of water and wastewater design.

- **Design of water transmission and pump station** , master plan for water supply Moghan villages(1000 villages),Ardebil provinces, Iran
- **Design of water treatment plant** , master plan for water supply Moghan villages(1000 villages), Ardebil provinces, Iran
- **Rehabilitation of water transmission and pump station** from yazd wastewater treatment plant to Bagh city(water reuse), Yazd provinces, Iran

- **Design of water transmission and distribution**, harbour Lengeh city, Hormozgan provinces, Iran
- **Design of water transmission and distribution**, Bastak city, Hormozgan provinces, Iran
- **Design of water transmission and distribution**, Parsian city, Hormozgan provinces, Iran
- **Design of water transmission and distribution**, Minab city, Hormozgan provinces, Iran
- **Design of water transmission and distribution**, Zarand city, Kerman provinces, Iran
- **Design of sanitary sewer collection and transmission**, Ramshar city, Sistan provinces, Iran
- **Design of water transmission and distribution**, Rostagh city, Yazd provinces, Iran
- **Rehabilitation studies water distribution**, Tezerjan and Dehbala village, Yazd province, Iran
- **Design of pump station and water hammer**, Bakhtiari and Hormozgan and yazd provinces

2004-2006

Nirooinvestment company

Chief design and construction engineer. Department of water and wastewater design.

- **Design, Reconstruction and monitoring of sanitary sewer in Imam Khomayni harbour petrochemical complex**
- **Design, Reconstruction and monitoring of chemical sewer in Imam Khomayni harbor petrochemical complex**
- **Design, Reconstruction of DAF and CPI wastewater treatment Imam Khomayni harbor petrochemical complex**

2003-2004

Hydrosazeh Consulting Engineers

Chief design engineer. Department of water and wastewater design.

- **DMA. Studies of Darab city**

Advisory in part time projects (Iran)

Hydropars Consulting Engineers, 2008

- **Design of wastewater treatment plant**, Persian Gulf Industrial (including Processes IFAS and UABR processes)

Behrad Consulting Engineers, 2009-2010

- **Design of wastewater treatment plant** , Zayandehrood Village Resort with Processes IFAS
- **Design of water distribution and transmission**, Zayandehrood village resort
- **Design of sanitary sewer collection and transmission** , Zayandehrood village resort
- **Design of Mechanical reservoir and transmission** , Zayandehrood village resort

Tarh va tahavol Consulting Engineers, 2011

- **Design of sanitary sewer collection and transmission** , Bersian Industrial city
- **Design of sanitary sewer collection and transmission** , Nasajan Industrial city

Behrad Consulting Engineers, 2012- present

- **Design of water distribution and transmission** , Chabahar city center
- **Design of intake seawater and transmission(designing ranney well)** , Chabahar city center
- **Design of sanitary sewer collection and transmission**, Chabahar city center

Summery of a selected project

Water provision for the greater Isfahan

This is to briefly introduce of the above-mentioned project in which I have been deeply involved. The project is in a national level, ordered by the Iranian Ministry of Power. The consultant company for this project is Zaayandaab Consulting Engineers which is the largest semi-governmental engineering consultant in Isfahan province.

In general, the project aims to provide the population living in Isfahan (located at the center of Iran) and its suburb area with adequate quality and quantity of water. Study phase of the project began in 2006 and is still in progress. It involves four different stages including 1) water intake facilities from Zaayandeh-Roud river, 2) a water transmission tunnel with the diameter of 4 meters and capacity of 22 cubic meters per second supplemented by a further dual GRP transition line with the length of 12 kilometers and diameter of 2000 millimeters, 3) a water treatment plant with the capacity of 10 cubic meters per second and 4) a four-way water transmission line (pre-stressed concrete and steel) with diameter of 1400 millimeters for each line and length of 27 kilometers plus distribution networks in 10 cities of the Isfahan county area (with the overall population of 5 million individuals). By the time of writing this report, studies of the tunnel, transmission line and distribution networks are finalized. The tunnel is also in its last stages of construction.

The water treatment plant in this project includes two phases with the capacity of 5 cubic meters per second for each phase. This plant will aid existing water treatment plant to provide adequate water for the population of 6.5 million individuals living in Isfahan province by the year 2040. The existing distribution network comprises approximately 1000 kilometers of piping which is also about to modify in length and material in this project.

As the chief design engineer and the project manager in Zaayandaab Company, my primary duties with respect to this project include design of the water intake facilities at the tunnel exit, design of the transmission lines and process and hydraulics design of the water treatment plant.

References are provided upon request.
