ROUDSAR MOHIT
SAZEHPARDAZI
Consulting Engineers
R.M.S

ROUDSAR MOHIT SAZEH PARDAZI
CONSULTING COMPANY

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مهندسین مشاور سازه پردازی ایران

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Emblem
the presidncy planning and budget organization of iran

Consulting Services Qualification Certificate

Dear Mr. Masoud Zarringhalam
Managing Director of Sazeh Pardazi Iran Consultant Engineers Company Reg. No.: 74403
National ID. No. 10101192997
According to Approval No. H 28437 T /20637 dated July 13, 2004 of the lvt:inisterial Board and regarding establishing the necessary conditions and confirming qualification of your company at Technical - Executive Elements qualification discretion comprehensive System, qualification of your company for performing consulting services is hereby notified as follows.

Grade 2	Hydrography ground survey
Grade 3	Geographic Information System (GIS)
Grade 3	Environment
Grade 1	Geotechnics
Grade 1	Structure
Grade 1	Oil and Gas Pipelines
Grade 1	Oil, Gas and Petrochemical Industries Refine11r units
Grade 2	River Protection and Engineering
Grade 1	River Protection and Enweering
Grade 3	Water and Wastewater Installations
Grade 2	Irrigation and Drainage Networks
Grade 3	Dam Construction
Grade 1	Port Construction and Marine Structures
Grade 1	Repetition of Port Construction and Marine Structures
Grade 3	Road Construction
Grade 1	Residential, Commercial, Administrative, Industrial and Military Buildings
Grade 3	Urban Development

* The project management rating in all cases has been obtained from the planning management organization

Consulting Services Qualification Certificate

Dear Mr. Mahmoud Afsoos
Managing Director of ROUDSAR MOHIT SAZEH PARDAZI iran Consultant Engineers Company Reg. No.: 589070
National ID. No. 14010630093
Pursuant to Resolution No. 20637/T 28437 H dated 23/04/1383 of the esteemed Council of Ministers and in view of the fulfillment of the necessary conditions and qualification of the said company in the Comprehensive System for Qualification of Technical and Executive System Agents, hereby the company's competence for the following consulting services is declared.

Grade 3	River Conservation and Engineering
Grade 3	Water and Sewage Facilities

* The project management rating in all cases has been obtained from the planning management organization

Introduction

Sazeh Pardazi Consulting Company was established in 1988, and for all time this company has been using the latest scientific and engineering achievements in the projects to satisfy the clients as the most important goal.
This company provides different engineering consulting services in some fields such as feasibility studies, basic studies, design, construction supervision and operation, project management, and project implementation in the form of EPC. all of these engineering consulting services can be done in a wide range of civil and industrial activities in Iran and some other countries.
The Sazeh Pardazi Consulting Company has established some departments and some subsidiary companies that provide all engineering services, these departments and subsidiaries are named:

- Roudsar Mohit Sazeh Pardazi Consulting Company
- Energy and Industry Sazeh Pardazi Consulting Company
- Darya Pajoh Construction Consulting Company
- Datis Development Company
- Structure and Architecture Department
- Geotechnical Department
- Surveying, Hydrography, and Photogrammetry Department

COMPANY INTRODUCTION

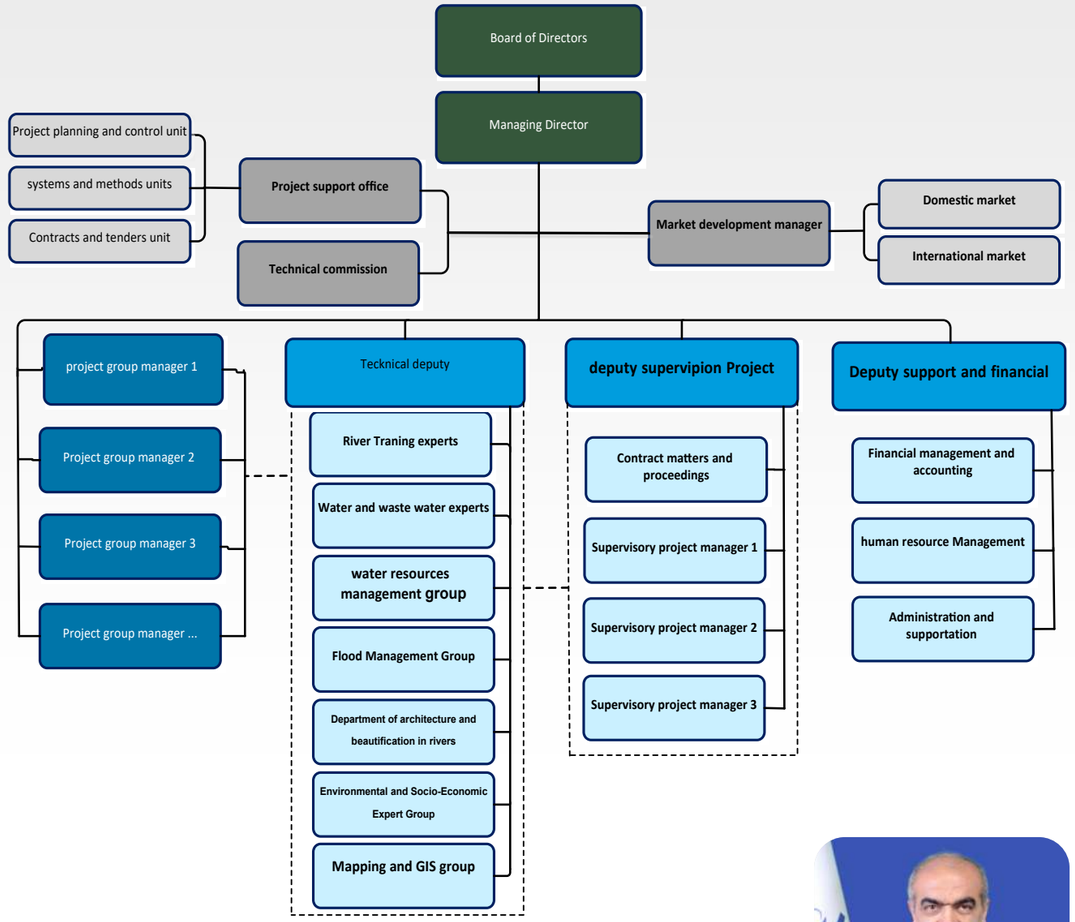
ROUDSAR MOHIT SAZEH PARDAZI

Providing study services, detail design services, and supervision services of executive operations in the following fields

- Management Consultanting (MC)
- River training
- Determination of Rivers and Wetlands bed border
- Beautification and improvement of waterways and rivers in urban area
- River transportation, dredging, organizing the harvesting of materials, and managing the river sediment and the river erosion
- Flood control in rivers and flood mapping in flood-prone areas
- Flood forecasting, Flood warning, dam failure analysis, and emergency action plan
- Design of rubber dams, hydropower plants, reservoir and regulation dams, and other hydraulic structures
- Design of the irrigation and drainage networks, water supply, surface and underground water sources
- Water surface Collection in urban areas and industrial areas
- Studies of the aquaculture complexes
- Environmental studies of the project in water and soil environments
- Design of water and sewage facilities
- Desig of water transmission lines and pump stations
- Surveying, photogrammetry and hydrography
- Preparation of Iran's water resources management standards and conducting research projects

3 decades of experience and more than **400** accomplished projects

Organizational chart Of Roudsarmohit sazehpardazi company



CEO's speech

Roudsar Mohit Sazeh Pardzari Consulting Company (RMS Co.) was established in 1400 as one of the subsidiaries of Sazeh Pardzari Iran Company in the field of water and environmental engineering. All the managers and experts of this company intend to take great steps in the development of water engineering projects by using domestic and international knowledge. We can develop ourselves by using the latest scientific achievements, advanced software, and our valuable experiences.

Mahmoud Afsous

Project Management Consultation (MC)

In our country, most of the projects are implemented with three organizations: Owner, Consulting Company, and Constructor. In this system, the owner must coordinate and manage all affairs. due to the extent of the owner's activities, their performance is generally accompanied by some trouble and defects. Project management consultancy is a new strategy for owners to optimize time, cost, and quality factors in implementing projects. Project management consultancy acts as a powerful arm of the owner and creates a reliable and stable relationship between the owner and the project implementation agents. In other words, Project management consultant, the employer's trustee, plays an important role in all legal and technical aspects.

more than **10** accomplished projects

Highlighted experiences of Project Management Consultation projects:

- Guiding services for planning and organizing the river training projects, determining the bed borders of rivers in all watersheds in Iran
- Steering services for the restoration and balancing of the underground waters in all watersheds in Iran
- Management of the executive work in the Shahid Ahmadian Khorramshahr fish breeding project
- Evaluation of studies to determine the bed borders and organizing the sand harvesting of rivers projects in Tehran and Alborz provinces
- Evaluation of studies to determine the bed borders of Tehran rivers
- Evaluation of Zanjan River land protection studies
- Optimizing the river training and river organizing in Iran (IRTSO)

River training and river bed border determination projects

Problems and defects in rivers can be studied on some grounds such as flooding, erosion, sedimentation, environment, water transport, and water quality. Some suitable solutions and implementation plans are suggested to improve the river conditions.

It is very important to determine the river and wetland bed border in the rivers of Iran due to the illegal possessions and constructions that were carried out in some of the lands along the rivers. These projects reduce the damage caused by destructive floods, so they are considered an important part of river engineering. River training projects and river bed border determination projects would be accomplished by eligible consulting companies. these kinds of projects are financed by the Ministry of Energy in Iran.

more than **180** accomplished projects

Highlighted experiences of river training and river bed border determination:

- River bed border determination and river training in Gilan Province rivers, Mazandaran Province rivers, and Golestan Province rivers.
- Bed border and flood plain determination in Seymareh river
- River bed border determination and river training in Lorestan Province rivers, Hamadan Province rivers, and Markazi Province rivers.
- River training of Tehran Province and Alborz Province rivers.
- Bed border determination in Minab and Gaz international wetlands.
- Bed border determination in KHorkhoran wetland in Hormozgan province.
- Bed border determination in Bamdej wetland in Khozestan province.
- Supervising on execution of Azarud river training in Mazandaran province.
- Supervising on execution of Halil river training in Jiroft province.
- Supervising on execution of Azarud river training in Mazandaran province.
- Surveying and Bed border determination in Estil wetland in Astara province.

Flood control projects

Flood control projects have been determined to control and minimize the destructive, economic, and social effects of floods in different regions of Iran. In these projects, structural plans, regional conditions, precise implementation, and flood warning systems are always considered to reduce flood damage. In addition, the failure analysis of reservoir dams is considered one of the important strategies for forecasting and preparing plans against the destructive floods caused by the demolition of dams.

more than **40** accomplished projects

Highlighted experiences of flood control projects:

- Possible failure studies, the feasibility of flood warning system, and preparation of emergency action plan in Taham, Mashampa, Merash, Kinehvars, Glaber, Talwar, and Bluebin dams
- Hydraulic investigation of monorail construction on Qom River and feasibility of flood warning system in Qom River
- Management and organization studies in the Karaj River to build a flood control reservoir and increase underground waters artificially
- Designing the flood control system for combined cycle power plants in West Karun, Kahnuj, Chador Maloo, Sabzevar, PereSar, Omidiyeh, and Sabalan.
- Detailed design and supervision engineering services to control the flood in the port site which is located in the South Parsian Special Economic Zone
- Preparation of executive maps and river training design in Gorgan Basin Rivers with the aim of flood management
- Dehloran flood control project

Erosion and sedimentation studies projects

Erosion and sedimentation are considered as two common phenomena in rivers. The unprincipled harvesting of river sand materials has increased recently. In addition, land use development in the vicinity of rivers has become very popular in recent years. So, these phenomena have intensified the erosion in rivers, creating different problems in rivers.
To reduce damages in urban or rural rivers, the implementation of erosion control plans, dredging and river sand removal control is required.

Highlighted experiences of erosion and sedimentation studies:

- Construction and study of the physical model of sedimentation in Bahmanshir River
- Studies on the Ashnestan River for managing the sand harvesting areas in Qazvin province.
- Surveying and GIS services for river treatment and for controlling the sand mines in Doroud city
- Supervision on implementation of dredging and diversion work in the Gorganrud-Karanjik River
- Studies on the potential of river sand resources in the Zahedan basins
- Engineering services for Supervision of dredging of the Karun River in Khorramshahr

more than **10** accomplished projects

ROUDSAR MOHIT SAZEHPARDAZI Consulting Engineers R.M.S

Beautification, Restoration, and development of river entertainment projects

Urban rivers have an important role as the axis of sustainable development and economic performance in urban areas. Urban rivers can be considered as modern attractions in urban spaces. So, nature and the ecosystem on the river sides can be used to improve the living quality in the urban areas.

The expansion of industrial regions and urban areas has destroyed some parts of the rivers. Environmental pollution and social anomalies create an ugly scenery of rivers in the cities. So, the implementation of river beautification projects and river entertainment projects can be effective in the restoration of these rivers.

Highlighted experiences of beautifying, revitalizing, and developing river tourism projects :

- Restoration of Darband, Gulabdare, Darabad and Harabeh rivers in Tehran city.
- River training and river Beautification of Jajrod River in Tehran province
- Supervision on River training and river beautification implementation of the Jajrud River in Lavasan city
- Studying and designing the campus garden in the lands of Barajin in Qazvin
- River training and river Beautification studies on Yasoj river
- Studies and supervision work for river training and beautification of the Tajen River in Sari city
- Studies and supervision of organizing and beautifying Tajen river in the area of Sari city
- Bashar river revitalization project (with the cooperation of South Korea)

Reservoir dams, rubber dams, flood control dams, earthen dams, and hydropower plant projects

The construction of small and large dams has always been one of the essential needs of our country to achieve various goals, including water supply, flood control, electric energy production, and recreational and touristic uses. So, all kinds of earthen, concrete, gravel, and rubber dams are being designed and would be built in Iran.

Also, the construction of hydroelectric power plants and storage pumps has been considered due to their advantages in terms of economy, multi-purpose, non-environmental pollution, rural development, loss reduction and balance in the national power grid.

In addition to hydropower plants, this company provides effective services in the studies of environmental factors which is required for designing nuclear power plants.

more than **35** accomplished projects

Highlighted experiences of reservoir dams, rubber dams, and hydroelectric power plants:

- Studies and supervision on rubber dam implementation in Tajen River
- Basic Studies and detailed design plans for Jajroud rubber dam
- Potential studies for identification of pump storage power plants in Khosestan, Hormozgan, Kerman and Yasoj province
- Water sources investigating, locating, and designing small storage dams in the 1400-hectare Barajin Park in Qazvin province
- Locating and underground dam design in Tehrud River in Bam city
- Initial study for identification of small water supply projects in Qazvin city
- Initial study for Alej dam and irrigation network in Chaharmahal Bakhtiari lands.

Irrigation and drainage network

The study and design of irrigation and drainage networks with the aim of constructing water supply channels, drainage and its ancillary facilities such as water intake valves, transmission and distribution structures and drains, considering the importance of the issue of optimal water transfer and use, as well as aquaculture complex plans which requires subject-specific experience and strong engineering knowledge and perspective; It has always been desired by the country's officials and has received much attention especially in recent years.

more than **15** accomplished projects

Highlighted experiences of Irrigation and drainage network

- Studies on the construction of irrigation canals and agricultural water transfer in Tehran province
- Irrigation and drainage network studies of the 5000-hectare Choebdeh shrimp farming complex
- Studies on the drainage system of agricultural lands in Dehquaid village
- Supervising the implementation of the Khalkai river project and Fomen irrigation canal
- Supervising the implementation of the project to improve and complete the drainage network on the sides of the C5 channel of Choebde Abadan Shrimp Farming Complex.
- Supervision of the execution operations of the drainage network around Choebdeh C4 irrigation canal

Water supply facilities, water transfer and sewage facilities

Due to the limitation of water resources, the decrease in rainfall and the need to respond to the needs of users and the challenges of water resources management, today water transfer plans include inter-basin transfer plans or from other surplus sources, desalination and transfer of water from the sea and wastewater treatment. has been seriously ordered by the trustees of the water industry. The importance of this issue will increase when we know that the development of future consumption in various sectors such as drinking, industry and agriculture is increasing day by day and requires serious planning.

Highlighted experiences of Water supply facilities, water transfer and sewage facilities

- Implementation of reconstruction operations, dredging and necessary repairs and maintenance of sewage network in Arvand Azad industrial site
- Designing the water supply network for sewage collection and irrigation of green spaces in Lavan area
- Studies and supervision of executive operations for the construction of water intake structures and water transfer to Sarbazar river fish breeding complex
- Studies of the water supply complex to the villages of Boyer Ahmad city
- Design studies of the pumping station and transmission line and water and sewage network of the tourism and tourist complex of Sib Firouzkoh village
- Water supply and transfer plan to the sample tourist area of Desh Boghor Dehdz, Khuzestan province

more than **25** accomplished projects

Environment

Environmental studies of projects are one of the environmental management tools that are used to reduce the effects and consequences of various activities on the environment with the aim of sustainable development, and the need to use it in large construction projects is emphasized. In general, the most important goal of conducting environmental studies is to ensure compliance with the policies and objectives set in the program and activities of a plan or project in line with government environmental standards, criteria, laws, and regulations.

more than **30** accomplished projects

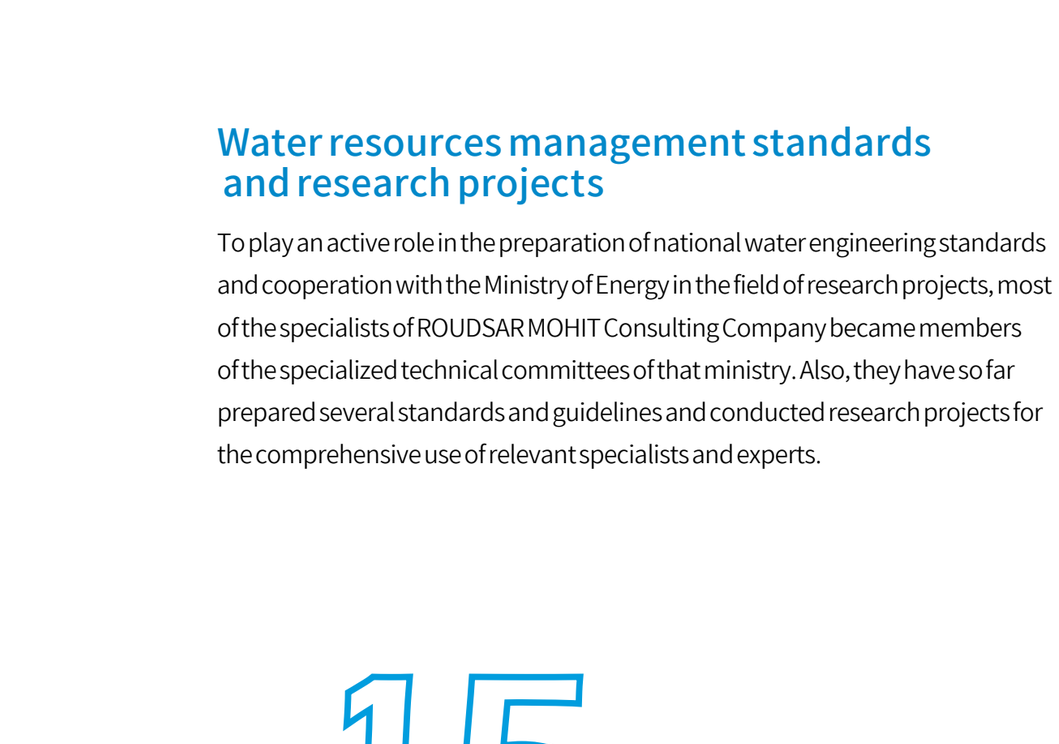
Highlighted experiences of environmental experiences:

- Environmental assessment studies of Bam-Jiroft railway and Isfahan-Ahvaz railway
- Carrying out parts of environmental resource recognition and evaluation studies of the integrated management plan for the coastal areas of Hormozgan province
- Environmental studies of storage pump dams in Kerman and Hormozgan provinces
- Studies on the mechanism of clean development of Tarik and Piran power plants, Bakhtiari dam and power plant, Nemarstaq 1 and 2 dam and power plants, and Zayandeh Rood regulatory dam.
- Environmental assessment of six waste transfer stations in Oman
- Water quality modeling studies of Talwar dam reservoir

Water resources management standards and research projects

To play an active role in the preparation of national water engineering standards and cooperation with the Ministry of Energy in the field of research projects, most of the specialists of ROUDSAR MOHIT Consulting Company became members of the specialized technical committees of that ministry. Also, they have so far prepared several standards and guidelines and conducted research projects for the comprehensive use of relevant specialists and experts.

more than **15** accomplished projects



Highlighted experiences of standards and research projects:

- Guide to organizing beautifying and determining the limits of the bed and privacy of urban rivers and waterways
- Preparation of the list of flood control services (Publication No. 480)
- List of wetlands and lakes demarcation services (Publication No. 578)
- Guide to studies of erosion and sedimentation in the organization of rivers (publication no. 383)
- Compilation of technical and engineering regulations for the protection of roads, cellars, and facilities of the West Karun oil fields against flooding (second package)
- Guide to morphological studies of deltas (publication no. 562)

Artificial feeding plans

Climate change in our country has reduced water resources in hot seasons and sudden floods in cold seasons. In addition to the relatively high cost of construction, flood storage dams also cause the evaporation of a large amount of rainfall. But artificial feeding plans do not have any losses and their construction costs are also reasonable.

Currently, the implementation of artificial feeding plans has gained double importance due to the excessive extraction of underground water and the occurrence of numerous droughts. Diversion of floods to permeable lands as well as the implementation of flow transfer channels are considered as solutions worthy of attention in this regard.

more than **15** accomplished projects

Highlighted experiences of Artificial feeding plans:

- Studying the restoration and improvement of the overflow of the Merost artificial feeding dam, the Mugherdi Bafagh dams, and the revision of the study of the Kahan Taft valley artificial dam.
- Revision studies of artificial feeding plan of Sadegh Abad, Yazd
- Studies of the first and second stages of the construction of an artificial lake on the Qamroud river
- Designing an underground dam in order to organize the Tehrud river in Bam city
- Pakdasht artificial lake (multi-purpose) study plan
- Management and organization studies of the Karaj River and the plan to build a flood control tank and artificial feeding of underground water