

KHARA DEZH CONSTRUCTION CO.

FIRST RANK IN THE FIELD OF WATER PLANT,

FIRST RANK IN THE ROAD INDUSTRY

FOURTH RANK IN THE BUILDING FIELD



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THE MANAGING DIRECTOR'S MESSAGE

KHARADZH IS AN ORGANIZATION THAT IS RESPONSIBLE FOR THE SUCCESS OF CONTRACTING PROFESSION IN IRAN. KHARADZH IS A TASK-ORIENTED, COMMITTED, INTERACTION-ORIENTED, LOYAL, KNOWLEDGEABLE BOARD OF DIRECTORS.

THIS COMPANY IS A SUCCESSFUL LEADER IN INFRASTRUCTURE PROJECTS AT THE NATIONAL LEVEL AND HOPES TO BECOME A RELIABLE CONTRACTOR AT THE REGIONAL LEVEL, THEREFORE IT ADHERES TO ENVIRONMENTAL STANDARDS IN ALL AREAS OF ITS ACTIVITIES.

MEMBERS OF THE BOARD

CEO

MORTEZA GHORBANI CHEGENI / MBA MANAGEMENT EXPERT

CHAIRMAN OF THE BOARD

FAZLOLLAH GHORBANI CHEGENI / SENIOR EXPERT IN CIVIL ENGINEERING WATER RESOURCES ENGINEERING

VICE CHAIRMAN OF THE BOARD

LOTFOLLAH GHORBANI CHEGENI / SCIENCE

MEMBERS OF THE BOARD:

MANSOUREH CHANGIZI / MASTER OF SCIENCE IN PSYCHOLOGY SINA GHORBANI CHEGENI / BACHELOR OF MECHANICS SASAN GHORBANI CHEGENI / BACHELOR OF CIVIL ENGINEERING ALI RANJBAR / BACHELOR OF CIVIL ENGINEERING JALEH YARAHMADI / MASTER OF MANAGEMENT

EXPERT TEAM

| Name | Educational certificate | University | Proficiency | Position | Experience (years) |
|----------------------------|-------------------------------------|---|---------------------------|-------------------------------|-----------------------|
| FAZLOLLAH GHORBANI CHEGENI | Master of Water plant mng. | university of South Tehran | Project Manager | Director Manager | 30 |
| SASAN GHORBANI CHEGENI | Civil Engineering | Sanati sharif university | Operation Engineer | Operation Engineer | 10 |
| SINA GHORBANI CHEGENI | Mechanical Engineering | Tehran university | Project Manager | Operation Engineer | 15 |
| AZIN GHORBAN CHEGENI | Architectural engineering | Shahid beheshti university | Technical engineer | Technical Office Employee | 15 |
| ARASH KARBAF | Civil Engineering | Shahid chamran university | Project Manager | Project Manager | 25 |
| MORTEZA KAMALVAND | Civil Engineering | Lamard biomant texas university | Project Manager | Project Manager | 20 |
| ABDOLKARIM ARIAN | Civil Engineering(Water facilities) | Sannat ab o bargh abbaspour university | Site Manager | Site Manager | 16 |
| ALI RANJBAR | Civil Engineering | Tabriz university | Site Manager | Site Manager | 20 |
| BEHZAD JAMSHIDI | Civil Engineering | Khoramabad azad university | Site Manager | Site Manager | 15 |
| SAMAN GHORBANI CHEGENI | Civil Engineering | Lorestan university | Site Manager | Site Manager | 15 |
| MOHAMMADREZA BAHMANI | Civil Engineering | Elm o sanaat iran university | Site Manager | Site Manager | 20 |
| FARSHID JAHANGIRI | Civil Engineering | Lorestan university | Operation Engineer | Operation Engineer | 15 |
| ARMIN SARTIP NIA | Civil Engineering | Sanandaj azad university | Operation Engineer | Operation Engineer | 15 |
| REZA HAMI | Civil Engineering | Malayer university | Operation Engineer | Operation Engineer | 15 |
| FARZAD MAAZI | Civil Engineering | Kermanshah azad university | Operation Engineer | Operation Engineer | 15 |
| MEHDI ALI NEZHADI | Bachelor of Irrigation | Shahid chamran university | Operation Engineer | Operation Engineer | 15 |
| ALI KOLIVAND | Civil Engineering | Sanandaj azad university | Operation Engineer | Operation Engineer | 15 |
| HASANALI SHAMSI | Civil Engineering | Tabriz university | Operation Engineer | Operation Engineer | 15 |
| OLDOUZ SHIRIN ZADEH | Civil Engineering | Guilan university | Operation Engineer | Operation Engineer | 15 |
| BEHZAD ASADIAN FILI | Mechanical Engineering | Shahid chamran university | Operation Engineer | Operation Engineer | 15 |
| AMIRKHOSRO SHIDOOSH | Mechanical Engineering | Takestan azad university | Operation Engineer | Operation Engineer | 15 |
| VAHID AMIRI | Civil Engineering | Khouzestan azad university | Technical Office Employee | Technical Offic e Employee | 15 |
| ALIREZA NAJAFI | Civil Engineering | Khoramabad azad university | Technical Office Employee | Technical Office Employee | 15 |
| YASER VAFAIE | Civil Engineering | Khoramabad azad university | Technical Office Employee | Technical Office Employee | 15 |
| MOHSEN CHANGAIE | Civil Engineering | Shooshtar azad university | Technical Office Employee | Technical Office Employee | 15 |
| ALI NIAIE | Civil Engineering | Shooshtar azad university | Technical Office Employee | Technical Office Employee | 15 |
| SOHEIL ABBASI GARAVAND | Topography engineering | Isfahan university | Topography | Topographer | 15 |
| SHAHOO ASADZADEH | Topography engineering | Sanandaj azad university | Topography | Topographer | 15 |
| MORTEZA MIRSOLEIMANI | Topography engineering | South tehran azad university | Topography | Topographer | 10 |
| MONA SHOKOUHIFAR | Topography engineering | Tabriz university | Topography | Topographer | 15 |
| HAMID GHOLAMI | Topography engineering | Lorestan Technical and Vocational Training Organization | Topography | Topographer | 15 |



ABOUT KHARADEZH

FIRST RANK IN THE FIELD OF WATER PLANT, FIRST RANK IN THE ROAD INDUSTRY AND TRANSPORTATION FIELD, AND THE FOURTH RANK IN THE BUILDING FIELD FROM THE COUNTRY'S PROGRAM AND BUDGET ORGANIZATION.

The Kharadezh Construction Company, (private Joint Stocks), was founded in 1984 with the intention to get involved in the national construction projects of Iran.

After successful completion of residential, office, educational and health providing structures throughout Iran, the company got involved actively as a contractor in construction of water infrastructure of the country.

The company is very proud that is able to take part in the development of the water industry infrastructures in Iran by contributing its two decades of experience in the field of construction, high management capabilities, state of the equipment and professional staff. The Kharadezh Construction Company is one of the most active and successful construction companies in Iran with sound financial capabilities, which utilizes the most skilled type of personnel & the state of the art machinery and tools to carry out construction projects. Currently, the Kharadezh Construction Company is actively present in doing the national construction projects in Iran.

The following are partial list of the services that the company can provide: Dam Constructions

Water Plants

Road Constructions

Tunnels

High Pressure Irrigation & Drainage Systems Water transfer Pipelines

Constructing Buildings

Water Transfer Canals

Water & Waste Water Treatment Plants

The Kharadezh Company has adopted the following 3 principles, to make it possible for the company to provide efficient & high quality services to its customers.

To gain customers satisfaction and trust

Constantly review and make improvements in the processes of the execution of the projects. To enhance the skills and knowledge of its employees continuously by holding educational & training programs.



| MACHINERY | FACTORY | MODEL |
|-------------------------|-------------|-------|
| Excavator | Komatsu | 220 |
| Excavator | Komatsu | 220 |
| Chain wheel excavator | Zoomline | 360 |
| Chain wheel excavator | Hyundai | 330 |
| Chain wheel excavator | Hyundai | 330 |
| Excavator | Komatsu | 220 |
| Chain wheel excavator | Komatsu | 200 |
| Excavator | Doo | 220 |
| Chain wheel excavator | Hyundai | 210 |
| Chain wheel excavator | Zoomline | 230 |
| Chain wheel excavator | Zoomline | 360 |
| Excavator | Kobelko | 200 |
| Excavator | caterpillar | 224 |
| Rubber wheel excavator | Komatsu | 150 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| Bulldozer 200 horsepowe | r Komatsu | 155 |
| bulldozer | Komatsu | 65 |

| MACHINERY | FACTORY | MODEL |
|-----------|---------|---------|
| dump | Volvo | NL 12 |
| dump | Volvo | N 12 |
| dump | Volvo | NL 12 |
| dump | Volvo | Ann 10 |
| dump | Volvo | NL 12 |
| dump | Volvo | Ann 10 |
| dump | Benz | 2624 |
| dump | Benz | 1113 |
| dump | Benz | 2624 |
| dump | Benz | 2624 |
| dump | lveco | 380 |
| dump | Volvo | FM 440 |
| dump | Bey Ben | 26 tons |
| dump | Bey Ben | 26 tons |
| dump | Bey Ben | 26 tons |
| dump | Bey Ben | 26 tons |
| dump | Bey Ben | 26 tons |
| dump | Bey Ben | 26 tons |
| dump | Benz | 2624 |
| dump | Volvo | NL 12 |
| dump | Volvo | FM 440 |
| dump | Benz | 2624 |
| dump | Volvo | FH 440 |
| dump | lveco | 330 |

| | MACHINERY | FACTORY | MODEL |
|---|---|-------------|---------|
| | Volvo | Hepco Volvo | 150 |
| | Volvo | Komatsu | 470 |
| | Volvo | Komatsu | 470 |
| | Volvo | Komatsu | 470 |
| | Volvo | Komatsu | 320 |
| | Volvo | Changlin | 957 |
| | Volvo | Hepco Volvo | 200 |
| | Volvo | Komatsu | 320 |
| | Volvo | Doo | 300 |
| | Volvo | Komatsu | 420 |
| g | Volvo | Changlin | 957 |
| | grader | Komatsu | 661 |
| 5 | grader | Komatsu | 705 |
| | grader | Komatsu | 705 |
| | grader | Komatsu | 661 |
| | grader | Komatsu | 705 |
| | grader | Komatsu | 661 |
| | grader | Komatsu | 705 |
| | grader | Komatsu | 661 |
| | Water tanker truck | Bey Ben | NG 80 |
| | Water tanker truck | Bey Ben | NG 80 |
| | Water tanker truck | Volvo | NL 12 |
| ì | Manual vibrating roller | Нерсо | V 6 |
| | Back-breaking car vibration roller | Нерсо | HS 100a |
| | roller | Нерсо | 100b |
| | roller | Нерсо | 100b |
| | Vibrating roller | Нерсо | 100 с |
| | Vibrating roller with drum drive | Нерсо | 100c |
| | Vibrating roller with cooler without drum drive | Нерсо | 100 с |

| MACHINERY | FACTORY | MODEL |
|---|------------|----------------|
| Vibrating roller with cooler without drum drive | Нерсо | 100c |
| Truck mixer with Volvo tractor | Volvo | NL10 |
| Mixer truck | Volvo | FM 440 |
| Mixer truck | Volvo | N10 |
| Mixer truck | Volvo | N10 |
| Mixer truck | Volvo | N10 |
| Batching | Rah Mashin | Batching plant |
| Rah Mashin | car road | Batching plant |
| Batching | Pars Novin | Batching plant |
| Batching | Tehran Rah | Batching plant |
| Batching | Tehran Rah | Batching plant |
| Double cabin truck- crane | Mitsubishi | E200 |
| Crane on Volvo n10 | Volvo | On truck |
| Total electronic station | Total | TCR 407 |
| Total electronic station | Total | TCR 407 |
| Total electronic station | Total | TCR 407 |
| Total electronic station | Total | TCR 407 |
| Riding | Peugeot | Pars |
| pickup truck | Mazda | В 2000 |
| double cabin van | Nissan | DX |
| Your truck is a van | Nissan | 2400 |
| Your truck is a van | Nissan | 2400 |
| Double cabin van | Mazda | В 2000 |
| Double cabin van | Nissan | DX 2400 |
| pickup truck | the arrow | 1600 |
| pickup truck | Mazda | B2000 |
| pickup truck | Mazda | B2000 |
| pickup truck | the arrow | 1600 |
| Riding | Nissan | Patrol 4 doors |



| MACHINERY | FACTORY | MODEL |
|-------------------------|--------------|----------------|
| Riding | Nissan | Patrol 2 doors |
| Generator engine | Commons | 250kva |
| Generator engine | Perkins | 45kva |
| Generator engine | Perkins | 45kva |
| diesel generator | Perkins | 60kva |
| diesel generator | Perkins | 60kva |
| Generator engine | Volvo | 100kva |
| Generator engine | Volvo | 100kva |
| diesel engine | Volvo | TAD1241 |
| diesel engine | Perkins | 65 horsepower |
| diesel engine | Perkins | 65 horsepower |
| diesel engine | Volvo | 220 horsepower |
| diesel engine | Volvo | 220 horsepower |
| diesel engine | Volvo | 220 horsepower |
| tractor | Iran Tractor | ITM399 |
| tractor | Iran Tractor | ITM399 |
| Industrial tractor | Iran Tractor | 650 - MT |
| Industrial tractor | Romania | 650 - MT |
| Industrial tractor | Romania | 650 - MT |
| Industrial tractor | Iran Tractor | 650-KVA |
| Industrial tractor | Iran Tractor | 650-KVA |
| Truck - fuel tanker | Volvo | N88 |
| wheeled tanker (water) | Saki Tanker | 20000 liters |
| wheeled tanker (water) | Saki Tanker | 20000 liters |
| fixed tanker (water) | Saki Tanker | 17000 liters |
| fixed tanker (water) | Saki Tanker | 17000 liters |
| fixed tanker (water) | Saki Tanker | 17000 liters |
| fixed tanker (water) | Saki Tanker | 17000 liters |
| Wheeled tanker (diesel) | Saki Tanker | 20000 liters |
| Wheeled tanker (diesel) | Saki Tanker | 20000 liters |
| fixed tanker (diesel) | Saki Tanker | 20000 liters |
| fixed tanker (diesel) | Saki Tanker | 20000 liters |

| | MACHINERY | FACTORY | MODEL |
|----|--|--|--------------|
| | fixed tanker (diesel) | Saki Tanker | 20000 liters |
| į | fixed tanker (diesel) | Saki Tanker | 20000 liters |
| | Lincoln welding engine with wheels and chassis | Lincoln | SAE 400 |
| ğ | Compressor | Ingersoll Rand | XP900 |
| ë | Compressor | caterpillar | 3306 |
| | Mineral compressor | Compressor manufacturing in Tabriz | P175 |
| i | Double cabin van | Nissan | DX |
| į | Your truck-van | Nissan | 2400 |
| ì | Your truck-van | Nissan | 2400 |
| ą | Double cabin van | Nissan | 2400 |
| ğ | Tow truck | Volvo | FH |
| ě | Tow truck | lveco | NT |
| ă | Compactor | Rubin | - |
| ă | Compactor | Rubin | - |
| Ş. | Electric vibrator | - | 100 kg |
| į | Electric vibrator | - | 100 kg |
| Į | Electric vibrator | - | 100 kg |
| ğ | Electric vibrator | - | 100 kg |
| | Electric vibrator | - | 100 kg |
| S | Electric vibrator | - | 100 kg |
| ğ | Electric vibrator | - | 100 kg |
| | Electric vibrator | - | 100 kg |



WATER CATEGORY PROJECTS

- . CONSTRUCTION OF WATER TRANSFER CANAL TO LAKE URMIA
- CONSTRUCTION OF BALAKHANLU RESERVOIR DAM
- . KHORRAM-ABAD WATER TRANSMISSION SYSTEM
- EXECUTIVE OPERATION OF TUNNEL B OF SORKHE HESAR
- . CONSTRUCTION OF RESERVOIR DAM OF KHAN ABAD AND PUMP STATION
- CONSTRUCTION OF ALIGUDERZ SEWAGE TREATMENT PLANT
- CONSTRUCTION OF IRRIGATION AND DRAINAGE NETWORK OF JIROAFT
- CONSTRUCTION OF A WATER SUPPLY CANAL FOR ROSBAR
- . CONSTRUCTION OF KAHMAN ALASHTR DAM



ROAD CATEGORY PROJECTS

- COMPLETION OF THE THIRD PART OF THE FOUR-LANE AXIS OF KOHDASHT-KHORRAMABAD
 - AND KASHKAN BRIDGE
- THE SECOND SECTION OF THE FOUR-LANE KOHDASHT-KHORRAMABAD
- THE FIRST SECTION OF KOHDASHT-KHORRAMABAD
- THE FIRST PART OF THE FOUR-LANE AXIS OF BORUJERD- ASHTARINAN
- THE THIRD PART OF THE FOUR-LANE AXIS OF KOHDASHT-KHORRAMABAD AND KASHKAN BRIDGE
- THE ACCESS ROAD TO BALAKHANLU RESERVOIR DAM
- ACCESS ROAD TO KHAN ABAD DAM
- THE WAY TO ACCESS THE KAHMAN DAM







CERTIFICATE OF QUALIFICATION AS CONTRACTOR

SAFE CONTRACTOR ACCREDITATION CERTIFICATE





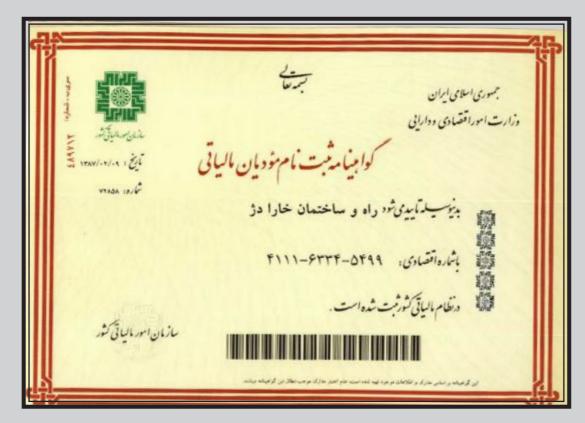


ISO CERTIFICATES

MEMBERSHIPS



MEMBERSHIP CERTIFICATE (SYNDICATE OF IRAN CONSTRUCTION COMPANIES)



ECONOMIC CODE





MEMBERSHIP CERTIFICATE
(SYNDICATE OF IRAN CONSTRUCTION COMPANIES)

CERTIFICATE OF VALUE ADDED TAX







CERTIFICATES OF APPRECIATION AND COMMENDATION LETTERS

Emblem
The Islamic Republic of Iran
The Ministry of Energy

To:Kharadezh Company Kharadezh Dam Contractor

Date: July 12th, 2005

The valuable efforts and services of the Kharadezh Company in constructing the KhanAbad Dam, which clearly demonstrate the high capabilities and determination of the professionals of this land, are highly appreciated.

We wish the success of the managers and the employees of this great company serving the country.

May God bless you and Iran

Habibolah Bitaraf The Minister of Energy

Emblem
The Islamic Republic of Iran
State Water & Sewage Engineering Company

Dear Mr. Morteza Qorbani Managing Director Kharadezh Constraction Company

Date: March, 2005

The development of the water and sewage industry of Iran requires great amount of wisdom, talent and strength. Part of this capability has demonstrated on your side during the construction of the Aligodarz waste treatment plant.

The experience that you and your comrades have gained during the construction of this plant is a valuable asset that will make it easier for the country to achieve its goal of constructing water and waste water treatment plants in the future. Hereby, the efforts of you and your coworkers, in planning & execution of the project are highly appreciated.

May God help you to remain a source of aspiration for the great people of this country by keeping up the good work.

Abbas Shafiei Vice Minister of Energy in Water & Sewage Affairs Managing Director of State Water & Sewage Engineering Company Commendation Letter The Ministry of Energy Kerman Regional Water Company (PJS)

Date: August 15th, 2005

To: Kharadezh Construction Company

In light of the great accomplishments of the Kharadeg Company in execution of the second part of Jiroft irrigation & drainage network project, which is the subject of contract # 19/27848, dated November 6th, 1996, the Kerman Regional Water Company appreciates such great achievements by your company.

Seyed Ahmad Alavi Board of Directors Chairman & Managing Director

Letter of Commendation Emblem The Islamic Republic of Iran The Ministry of Energy West Regional Water Company

Date: May 5th, 1994

To: Management of Consultations, Builders and Contractors Subject: Kahman Dam Construction

Please be advised that the honorable president of the Islamic republic of Iran along with respectful members of his cabinet recently visited the great province of Lorestan.

During this visit, he and his cabinet members got an opportunity to visit the first phase of the construction of the Kahman Diversion Dam which was accomplished by the grace of Almighty God and the efforts of you and your staff.

The president admired the job done with respect to its quality and its quantity and was very happy to see such great accomplishment. The Kharadezh Construction Company was introduced to the president as the company which was responsible for the construction of the Kahman Diversion Dam project.

The president was informed that the company and its staff devoted a great amount of effort toward the achievement of such goal. Hence, your good work in accomplishing the project is recognized and greatly appreciated.

Signed & Sealed by: Seyed Mohammad Lahijani Division of Design & Execution

Commendation Letter

April 27th, 1994 To: Kharadeg Construction Company

Reciprocally, I would like to say hell and wish you success in your efforts in building our Islamic motherland.

I would like to recognize and appreciate all the efforts that you and your coworkers have devoted toward the accomplishment of the Kahman Alashtar Dam Project.

During the execution of the project, we realized that the employees and the management of your company are very serious, determined and enthusiastic about their job.

I do appreciate the staff of your company for being very cooperative during the project.

I wish that almighty God, help you and your employees to succeed in your efforts in the development of the water industry of Iran.

West Water Regional Authority





BALAKHANLOU DAM

BALAKHANLOU EMBANKMENT DAM FOR 38.5 MILLION CUBIC METER CAPACITY FINISHING YEAR: IN PROGRESS PLACE: BUIN ZAHRA, QAZVIN PROVINCE, IRAN LENGTH OF THE DAM CROWN: 360 M HEIGHT:84M FROMFOUNDATION PRICE: 19,097,288.80 \$







One of the important infrastructural projects of Qazvin province is the construction of the Balakhanlu Reservoir Dam. With the completion of this dam and its full exploitation, drinking water will be provided to 5 southern cities of Qazvin province, including Asfarorin, Boyinzahra, Dansfahan, Shall and Abgarm, as well as 30 villages around this dam. became. Balakhanlu dam with a clay core, which is 35 kilometers southwest of Qazvin in Boyinzahra city, its construction started a decade ago and considering that it is being built 100 meters downstream of Balakhanlu village on the Haji Arab river.

Balakhanlu Dam is an earthen dam with a clay core, which is under construction with a height of 84 meters from the foundation, a crown length of 370 meters, and a reservoir volume of 38.5 million cubic meters. This dam aims to regulate the flow of the Haji Arab river and control the river floods in order to supply part of the drinking water and health needs of 5 cities and 30 villages in the south of the province at the rate of 5 million cubic meters per year and to supply the water needed for 4200 hectares of agricultural lands at the rate of 3 2 million and 200 thousand cubic meters will be built in improved conditions through integration with underground water resources and seasonal water resources of the middle basin of the dam and supply 4 million and 400 thousand cubic meters of artificial and ecological feeding needs of Haji Arab river flow.















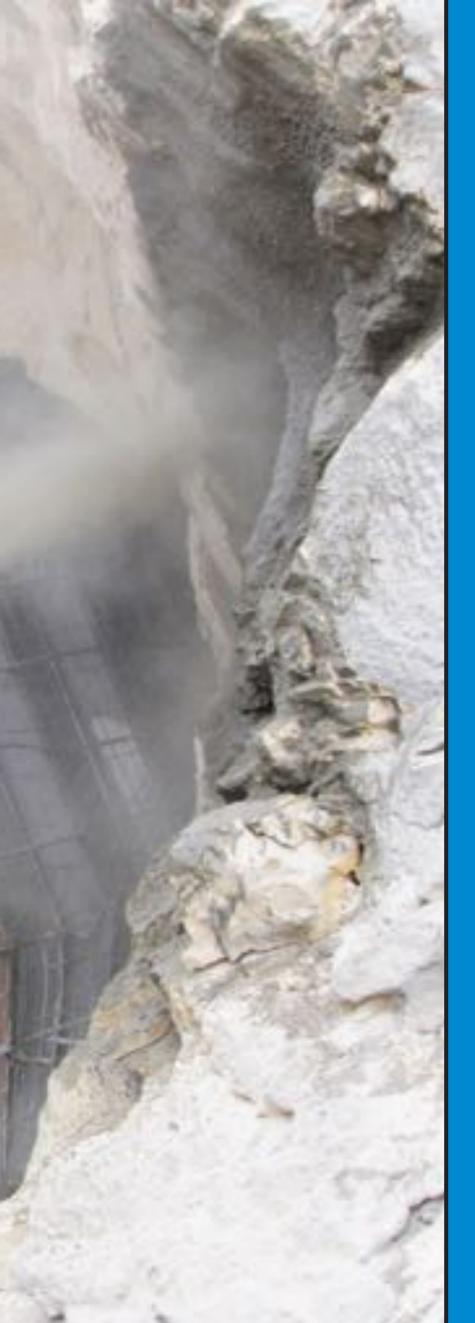












KHORRAMABAD WATER TREATMENT PLANT

KHORRAMABAD WATER TREATMENT PLANT FINISHING YEAR: 2014 PLACE: KHORRAMABAD, LORESTAN PROVINCE, IRAN PRICE: 8,618,098.01 \$









Implementation of two steel lines with a diameter of 1800 mm and a length of 7 km. Two strands of GRP pipeline with a diameter of 1800mm. Construction of a reinforced concrete structure for the tunnel exit waterfall, 200 meters long and 5 meters wide. Construction of a water tunnel with a finished diameter of 7.3 meters and an approximate length of 5220 meters Implementation of tunnel entrance and exit structures Construction of a concrete transmission canal with a capacity of 15 cubic meters per second and a length of 6587 meters.







TUNNEL B

EXECUTION OF TUNNEL B & REMAINING PARTS OF CA-

NAL B FINISHING YEAR: 2013

PLACE: TEHRAN, TEHRAN PROVINCE, IRAN

PRICE: 5,342,919.21 \$

Sorkheh Hesar Tunnel (Tunnel B)
Construction of tunnel B between Vafadar Highway and Maythami Street and the remaining branches of B Canal in Meat (Gousht) Organization Street and the northern part of Shahid Rajaee Street (piping)
Approximate length of the tunnel: 2200 meters
The approximate length of the open trench canal is 55 meters
Pipe laying operation of 300 meters by tunnel method and 110 meters by open trench method









ALIGODARZ WASTEWATER TREATMENT PLANT

ALIGODARZ WASTEWATER TREAT-

MENT PLANT

FINISHING YEAR: 2006

PLACE: ALIGODARZ, LORESTAN

PROVINCE, IRAN PRICE: 1,556,802.59 \$







Inlet pump, aeration and clarification pools, overflows, chlorination building, side buildings, landscaping, fencing, electrical and mechanical installations of side buildings, construction of a concrete bridge unit to pass a 1000 mm sewer pipe, construction of manholes and 1000 mm diameter piping and the length of 270 meters of sewage transmission line to the treatment plant, the construction of 600 and 800 mm sewage pipelines next to the crossings with a length of 270 meters, the construction of 1500 meters long pipeline for the treatment plant, a canal with a trapezoidal section of 3000 meters





JIROFT IRRIGATION AND DRAINAGE

A REPORT FROM IRAN STATES THAT THE HALIL RUD REGION NEAR "JIROFT BECAME FAMOUS BETWEEN 2002/2003 [WHEN NEWS OF] THOUSANDS OF CONFISCATED BURIAL GOODS, ESPECIALLY ELABORATED CARVED CHLORITE VESSELS FROM THE NECROPOLISES OF HALIL RUD" WERE RELEASED TO PUBLIC.

SINCE FEBRUARY 2003, ARCHAEOLOGISTS HAVE RECOVERED A WEALTH OF ARTIFACTS FROM THE NECROPOLIS WHICH THEY HAD NAMED MAHTOUTABAD. FOR EXAMPLE, ONE GRAVE CONTAINED "ANIMAL BONES AND FOOD OFFERINGS, CERAMICS, AND STONE AND COPPER ITEMS ... [INDICATING] A COHERENT CULTURAL AND CHRONOLOGICAL FRAMEWORK, AROUND 2400–2200 BC".

Jiroft is a city and capital of Jiroft County, Kerman Province, Iran. At the 2006 census, its population was 95,031, in 19,926 families. It is located 230 kilometres (140 mi) south of the city of Kerman, and 1,375 kilometres (854 mi) south of Tehran along Road 91. In the past it was also called Sabzevaran, and on account of its being very fertile land it is famous as Hend-e-Koochak (the little India). The civilization found in Jiroft is one of the oldest human civilizations (according to some, the oldest) and the manuscripts obtained from this civilization are before the cuneiform discovered in Mesopotamia.













JIROFT IRRIGATION AND DRAINAGE 43

Jiroft is located in a vast plain, Halil River, on the southern outskirts of the Jebal Barez mountain chain, surrounded by two rivers. The mean elevation of the city is about 650 metres (2,130 ft) above sea level. The weather of the city is sweltering in summer – it is one of the hottest places in Iran – but temperatures are moderate in winter.

There is a large dam (Jiroft Dam) upstream the city (40 km North-East of Jiroft) on the Halil River (Halilrood). It is under operation since 1992. Having a reservoir of more than 410 million cubic meters of water, irrigates 14200 hectares of the downstream and generates electricity.







RAZBAR DORUD WATER CANAL

FINISHING YEAR: 1998

PLACE: DORUD, LORESTAN

PROVINCE, IRAN PRICE: 514,958.31 \$





KHORRAMABAD - KUHDASHT ROAD

27 KM OF ROAD BETWEEN KHORRAMABAD & KUH-DASHT 4 LINE ROAD & GRAND BRIDGE ON KASHKAN RIVER.

FINISHING YEAR: 2020

PLACE: KHORRAMABAD, LORESTAN PROVINCE, IRAN

PRICE: 13,296,744.14 \$











8.5 KM OF ROAD BETWEEN BORUJERD & OSHTRINAN 4 LINE ROAD FINISHING

YEAR: 2013

PLACE: BORUJERD, LORESTAN PROV-INCE, IRAN PRICE:78,032,386.42\$





Oshtorinan (Persian: oŝtorinān, Ashtarian, also Romanized as Oshtorīnān and Oshtornīān) is a town and the capital of Oshtorinan District, in Borujerd County, Lorestan Province, Iran. At the 2006 census, its population was 5,264, in 1,408 families. The city and district is populated by Kurds.

Oshtorinan has a cold climate and is an agricultural centre. Oshtorinan is located in the western region of Iran between the cities of Borujerd, Malayer, and Nahavand. It is 15 km north-west of Borujerd and historically has been used as a caravanserai for travelling from Borujerd to Hamedan, and from Isfahan to Baghdad.







KHAN ABAD DAM ROAD

45 KM OF ACCESS ROAD TO KHAN ABAD DAM. FIN-

ISHING YEAR: 2003

PLACE: ALIGODARZ, LORESTAN PROVINCE, IRAN

Dam Position

Country Iran
Province Lorestan
Dam Location 25 Km From South
East Of Aligudarz
Dam Specification
Type Earthfill Dam With Clay Core
Crest Length 290m
Height From Foundation 31.5m
Reservoir Volume At Normal Level
17.9 Million M3













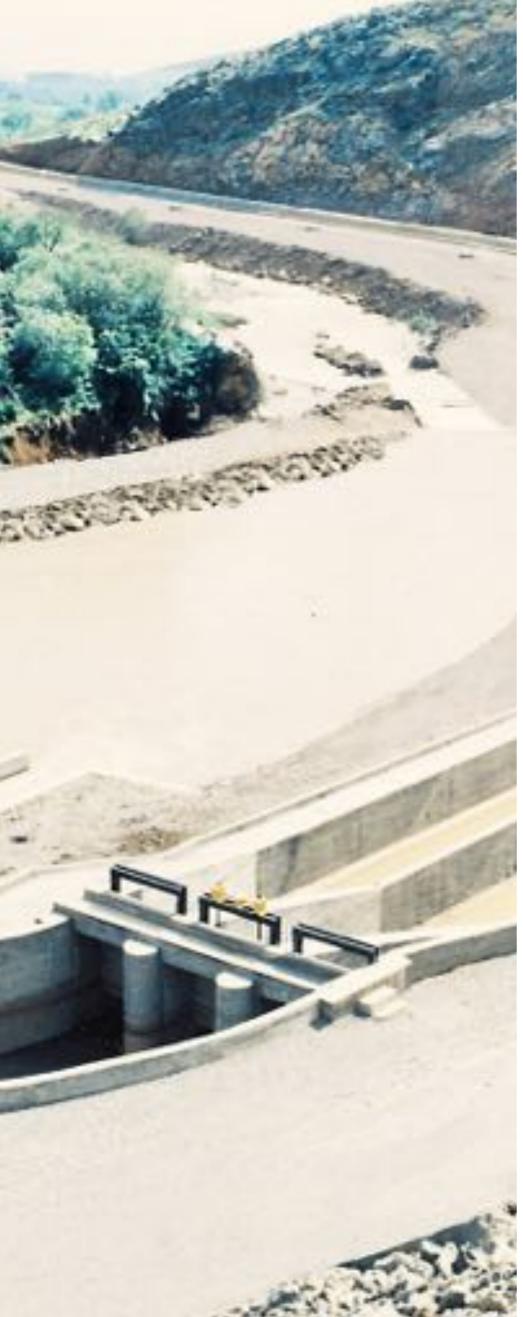
KAHMAN DAM ROAD

10.5 KM OF ACCESS ROAD TO KAHMAN DAM. FINISHING

YEAR: 1991

PLACE: ALESHTAR, LORESTAN PROVINCE, IRAN







The Kahman Valley is related to the prehistoric era of ancient Iran and is located in the city of Selesh (near Al-Shatar) in the village of Upper Tang Valley and Lower Tang Valley and in the northeastern area of the city. One of the national works of Iran has been registered.

Kahman Valley is located in the geographical position of N335901 E482102 in Lorestan province (Silesh city). Kahman area is one of the most famous geotourism attractions in the region. Tall and old trees, beautiful nature, permanent glaciers, numerous caves, rare medicinal plants, many springs and a very pleasant climate are among the natural features of this region.





WATER TRANSFER CANAL TO LAKE URMIA

CONSTRUCTION OF WATER TRANS-FER CANAL FROM THE EXIT OF KANI SIB TUNNEL TO URMIA LAKE. FINISHING YEAR: IN PROGRESS

PLACE: NAQADEH, URMIA PROVINCE,

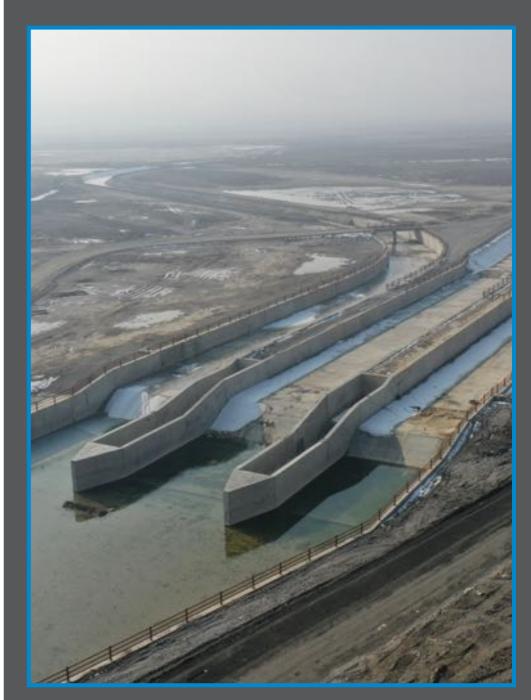
IRAN

PRICE: 16,184,949.17 \$

Lake Urmia is an endorheic salt lake in Iran. The lake is located between the provinces of East Azerbaijan and West Azerbaijan in Iran, and west of the southern portion of the Caspian Sea. At its greatest extent, it was the largest lake in the Middle East and the sixth-largest saltwater lake on Earth, with a surface area of approximately 5,200 km2 (2,000 sq mi), a length of 140 km (87 mi), a width of 55 km (34 mi), and a maximum depth of 16 m (52 ft).

By late 2017, the lake had shrunk to 10% of its former size (and 1/60 of water volume in 1998) due to persistent general drought in Iran, but also the damming of the local rivers that flow into it, and the pumping of groundwater from the surrounding area. This dry spell was broken in 2019 and the lake is now filling up once again, due to both increased rain and water diversion from the Zab River by the Lake Urmia Restoration Program.

Lake Urmia, along with its approximately 102 (former) islands, is protected as a national park by the Iranian Department of Environment.





























THIS PROJECT INCLUDES A TRAPEZOI-DAL CANAL WITH CONCRETE COVER AND MASSIVE CONCRETE STRUCTURES, WHICH INCLUDES THE FOLLOWING TWO MAIN PARTS:

Section A: including the construction of a water transfer canal with a trapezoidal cross-section, about 6.4 km long, with a capacity of about 42 cubic meters per second, with a floor width of 10 meters and a height of 2.5 meters, along with 10 concrete structures and 5 pedestrian bridges. steel and 4 steel pipelines of 500 mm length of 115 meters.

Section B: including the widening and deepening of the existing drain in the area, about 4.5 km long, with a capacity of 52 cubic meters per second, with a floor width of 12 meters and a height of 3.4 meters, along with 9 massive concrete structures. The total volume of lining concrete is 21,500 cubic meters and structural concrete is 19,300 cubic meters, and the weight of the reinforcement used is 1,900 tons. The volume of excavation, canaling, and sludge removal is 659,000 cubic meters, embankment is 161,000 cubic meters, and gravel is 188,000 cubic meters. Due to the width of the canal above 20 meters, the traditional culverts have been cut on the way, using 500 mm long 115 meter steel lines, the said pipes were cut and assembled and installed by the company's welding team at the workshop.

