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Views of Construction in Different Projects

The Kurit Dam is a masonry arch dam located at 34km southeast of Tabas, Iran near the village of Kurit. The dam is the oldest arch dam in the world and was constructed around 1350 AD. The dam was originally 60m high but 4m of height was added in 1850. The dam was constructed in a very narrow gorge and was the tallest in the world up until the early 20th century. The dam also contained a sophisticated water outlet system for its time. The Kurit dam has experienced the Tabas earthquake with a magnitude of 7.8 (.7g) without even minor damage in 1978.

History

Ev-Yol Construction Company was established in 1978. Effective participation in development of I.R.IRAN and making improvement in productive occupations in local and international construction activities has been followed by the company as its main goal. Accomplishment of over 30 domestic projects and attending in several international projects shows the great success of the company towards its goals.

Perspective of Future

The experience achieved through execution of various projects during last 30 years, along with modern organization structure, efficient and skillful manpower, vast and various machinery and financial resources, as well as establishment of Quality Management system based on ISO9001:2008, Construction Quality Control-Assurance (QC/QA), Project Management (PMBOK) and HSE, They all has increased our ability of constructing The grand plans and international projects.

Featured Activity Fields:

Design and Build of Dam and Appurtenant Structures

Design and Build of Road and Highway

Design and Build of Tunneling and Bridge

Design and Build of Water and Sewage Systems

Engineering, Procurement and Construction Water and Waste Water Treatment Plant

Engineering, Procurement and Construction Hydropower Stations

Engineering, Procurement and Construction Industrial Plants

Engineering, Procurement and Construction High-Rise Buildings

Goals & Visions

As mentioned earlier, Ev-Yol international company is aspiring to engage its strengths and experience in sustainable national and international development and employ modern managerial techniques and latest science and technology innovations in the field for accomplishing efficient and high quality projects and providing assurance to clients.

The company has a long history of activity in the field of road construction projects as well as water resources management and has prepared itself for design and construction of large dams, highways, water treatment facilities, refineries and industrial and residential buildings at international level. In this context, the company has established quality management and worksite safety and health systems as well as environmental control and quality assurance policies in order to evolve into one of the top 10 companies in the region in accordance with its strategic plan over the next decade.

Quality Control & Quality Assurance

Ev-Yol international company has fully dedicated all of its efforts to quality control through possession of expert and experienced human resources and establishment of professional laboratories in projects and has demonstrated its commitment in compliance with technical specifications and international quality standards in every project in collaboration with quality assurance teams.

Safe, successful and long term operation of projects completed by Ev-Yol company has promoted it as an exemplary construction company at a national level. Numerous acknowledgment letters conferred by the clients are among the professional honors and awards of this company.

In line with the achievement of operational quality goals and long term and safe functionality of the project, Ev-Yol international company establishes quality assurance teams and quality control laboratories in every project and composes the required instructions and guidelines based on the relevant technical specifications of the project and issues "No-Defect" certificates for different parts of the project and monitors it throughout the warranty period.

Composition of standard instructions for general technical specifications and implementation of quality control and quality assurance in concrete operations, steel works, subgrade execution for railways and freeways, pavement operations, formworks, aggregates, cement and chemical materials, electrical and mechanical equipment and facilities, and construction methods of dams, highways, industrial buildings, water and wastewater treatment plants, pump stations and hydro-electric power stations play an important role in successful compliance with technical specifications of the projects.

Safety, Health & Environment

Benefiting from well-educated and experienced staff, Ev-Yol International Company places a great importance on observing safety, health and environmental protection principles in its projects and it has established an HSE system based on the following outlines in order to achieve this objective and is committed to effective implementation of these obligations and international regulations on environmental protection, safety and human rights.

A commitment to prevention of environmental pollution, contamination of soil, water and air, by identifying, monitoring and setting objectives for significant environmental aspects in implementation of civil projects in accordance with the requirements of relevant laws and organizations.

A commitment to employee health and safety and reducing incidents of human resources, by identifying, evaluating, monitoring and targeting occupational hazards in order to reduce risk in construction projects, in compliance with the regulations of relevant organizations.

Optimized utilization and development of human resources, including employment in jobs related to their skills and enhancing their capabilities to guarantee success in the HSE system

Using appropriate and efficient equipment in accordance with project requirements

You can't change the past but you can change the future,

It's upon you what you Want!

Friend of Nature

Certificates

Certificates from President Deputy strategic planning and Control

GRADE #1	in the field of Water (Dams, WTP,WWTP, Sewerage system)
GRADE #1	in the field of Transportation (Road, Highway, Rail Road)
GRADE #3	in the field of MEP & Equipment (Hydromechanics)
GRADE #3	in the field of Building (Building and Landscaping)
GRADE #4	in the field of Industries & Mines (Instrument, Quarry)
GRADE #4	in the field of Power (Plant, Electric Distribution)
GRADE #5	in the field of Plant Exploration
GRADE #5	in the field of Oil & Gas

Certificates from Anglo Japanese American (AJA)

- Management Systems ISO 9001:2008
- Management Systems ISO 10002:2004

Certificates from Alliance

- Health, Safety, Environment Management System (HSE-MS)

Membership in National & International Associations

Iranian Construction Companies Association	www.acco.ir
International Consultants & Contractors Association of Iran	www.iccair.com
Iranian Association of Rail Transport Engineering	www.railassociation.ir
Iranian Concrete Institute	www.ici.ir
International Federation of Consulting Engineers	www.fidic.org
Iranian Tunneling Association	www.irta.ir
Research & Development Institute of Construction Industry	www.ehdasrd.com
Iranian National Committee on Large Dams	www.ircold.ir
Iranian National Committee on Irrigation and Drainage	www.irncid.org
Association of Petroleum Industry Engineering & Construction Companies	www.irapec.com
Iranian Water Resources Association	www.iranwra.com
Iran Road Construction Association	www.iranrca.com

Managing Director & Members of Board

Salar Aliari

- Position: Chairman of the Board of Directors and
- Managing Director
- Date of birth: 1951
- Education: BSc in the field of Civil engineering from "Iran University of Science & Technology", Tehran, Iran, 1974
- Experiences: More than 38 years in many projects as executive manager and managing director, his managing experiences cover many national projects, up to six simultaneous active construction sites and near to 2000 employees in different positions.

Yavar Aliari

- Position: Vice Chairman of the Board of Directors
- Date of birth: 1955
- Education: BSc in the field of Civil Engineering from "Ardebil Branch of Islamic Azad University", Iran, 2005
- Experiences: About 35 years in all projects of the company as vice chairman of the board of directors.

Yashar Aliari

- Position: Member of the Board of Directors
- Date of birth: 1982
- Education: PhD Civil Engineering Project management program "University of Maryland, College Park", Maryland, U.S.A, 2012
- Experiences: 10 years in the recent projects of the company as member of the board of directors.

The Managing Director's Message

Ev-Yol Company established in 1978 with the aim of working on construction and of removing deprivation from Iran's provinces. In spite of all economic, regional and internal security ups and downs, this company managed to pass the way of progress and development during these recent four decades.

Continuous activity in design and construction of the grand projects such as road-construction, dam-construction and foundation and benefiting from up-to-date engineering technology and knowledge and observing international standards, has added valuable experiences to this company's professional records. One of the responsibilities of Ev-Yol is to preserve, promote and apply these experiences continuously under the shadow of specialists and efficient machinery and financial resources for the purpose of prosperity and development.

Having acquired and relied on precious experiences and the stated resources within the country, beside domestic and internal activities, this company has been active in international arena since fourth decade of its existence.

This is more than a decade that world community has moved from industrial age to the information technology and postindustrial age, thus; Ev-Yol is about to move hand in hand with the world community in performing its national and transnational duties.

We believe that the only way to bring peace, stability and welfare for mankind throughout the world is the state, regional and global sustainable and balanced development and we, as an active organization in the construction industry, have the responsibility to play role in the global sustainable development.

Therefore; relying on our human resources, knowledge and technical experiences, we are about to have a long stride on the way of rendering technical and engineering services and of moving toward all approved strategic plans of the company and these are something which will be reached by preserving and promoting the products' quality and quantity, by considering the customers' satisfaction, and by cooperating with scientific-research centers.

Salar Aliari

Managing Director

Key Personnel

Deputies

1. Ali Hossein Nejad
Joined Ev-Yol Company in 1989 in charge of site's head. in 1996 he served as projects manager and in the year of 2009 he was appointed as executive manager.
since 2013 he has been working as managing director deputy regulating deputies' affairs.

Educational Record
Bachelor of science in civil engineering, Iran University of Science & Technology, 1984

Background
Technical expert at Water Committee of Khorasan Jihad Sazandegi Co., projects Supervisor at Iran National Oil Products Distribution Company in Khorasan.
2. Mohammad Raffiei
Joined Ev-Yol in 2004 and held technical and engineering managerial position. In addition to this he was also appointed as managing director in EV-YOL ABNIRO in 2009. He has been working in this company as deputy of engineering, development and international project since 2012.

Educational Record
Master of science in civil engineering, minor on structure, University of Tabriz, 1993

Background
Technical manager at JTR Construction Co. active in the field of house and hospital water treatment plants, Technical manager and manager projects at SOKNA JONOBB Company, active in construction of industrial projects, residential estate and factories.
3. Manochehr Badiei
Joined Ev-Yol Company in 2007 as manager of human resources

Educational Record
Bachelor Program in Industrial Management, University of Gilan, 1973

Background
Administrative-financial deputy and member of board of director at NEISHEKAR HAFT TAPEH Co., Administrative Manager at NIMESABOK PROFIL Co., Vice-president at SEDAD MACHINE Co., Manager and administrative consultant of managing director at SADID Industrial Group, Member of Board of Director at SADID TADBIR Co.
4. Gholamhossein Ameri
Joined Ev-Yol in 2009 and held financial manager position. He has been working with this company as financial deputy since 2013.

Educational Record
Master of Art in Business Management, Chamran University of Ahvaz, 2002
Bachelor of Art in accounting, Chamran University of Ahvaz, 1995

Background
Financial Expert and financial Manager at Sugarcane Development Company and its Side Industries (Tose'e Neishekar & Sanaye Janebi Co.)
5. Changiz Faramarzi
Joined Ev-Yol Company in 2011 in charge of machinery directorate. In 2012 in addition to that position he was also appointed as the company's support manager.

Educational Record
Mechanical Engineering- minor on machinery, University of Tehran, 1993

Background

Technical manager at SHIRVAN Sugar Factory, Managing Director at DOKA TEHRAN Co., Machinery Manager at JALAN ROOD Co. & SAZVAR Co.

6. Siavash Khodabakhsh

Joined Ev-Yol Company in 2009 in charge of machinery directorate. In 2010 he was appointed as Support Manager and since 2012 he has been working as Commercial & Procurement Manager in this company.

Educational Record

Master of Science in Dam-Construction, University of Tabriz, 1977

Bachelor of Science in Road-Construction Technology

Background

Director General at Road & Transportation Dep. of Iran Cities, Minister Deputy at Technical & Engineering Committee of warfront, Housing Manager at Ministry of Housing and Urbanization in the city of Kermanshah, State Airports General Director, Technical Supervision General Director, Machinery Organizing General Director at Ministry of Road and Transportation.

7. Bahman Nejadi

Joined Ev-Yol Company in 1979 in charge of financial manager. Since 2011 he has been working with this company as supervisor of financial affairs

Educational Record

Diploma of High School in Natural Sciences, 1970

Background

Head of Bank Saderat Branch, Employee at Bank Keshavarzi, Financial Manager at IRAN MAGHSOOD Co. & KOOHDASHT Co. & CHIPAL Co. & GOHARFAM Co.

Managers

1. Bijan Chaparian

Joined Ev-Yol Company in 2009 in charge of project manager. in addition to that position he also became a member of board of directors in Ev-Yol Abniro in 2012.

Educational Record

Master of Science in Civil Engineering, Technical School-University of Tehran, 1977

Background

Head of technical office and technical deputy of Gostaresh Maskan Company's site, Executive deputy of Iran Gostaresh Company's site, Managing Director at Ageneh Company, Project manager of DENA RAHSAZ Company's internal and foreign projects working on highway construction.

2. Yaghoob Hassanpour

Joined Ev-Yol Company in 2003 as site chairman. Since 2009 he has been working with this company as project manager in many different projects.

Educational Record

Bachelor of science in civil engineering, SHARIF University, 1986

Background

Technical Deputy at East Azerbaijan Industrial Estates Co., Project Manager at East Azerbaijan Regional Water Co., Site Chairman at CHANGHAL Co., Manager of Technical Office at Tehran Heavy Metal Industry Co.

3. Ali Mahdavian
Joined Ev-Yol Company in 1995 in charge of site technical deputy. In the year 2001 he was appointed as the site chairman and since 2003 he has been working as project manager
Educational Record
Bachelor of Science in Civil Engineering, AMIR KABIR University, 1994
Background
Technical Expert at DAHI SAZEH Co.
4. Farzin Naderi
Joined Ev-Yol Company in 2008 in charge of chairman of technical office. since 2012 he has been working with this company as technical and engineering manager
Educational Record
Master of science in civil engineering, University of Shiraz, 1990
Background
Technical and engineering manager at ABAN 55 Construction Company, Technical and engineering manager and chairman of OMRAN SARASARI Company's site, Supervisor of technical office at KATRA Company in dam-constructing projects, Technical and executive deputy at PARS GARMA Co.
5. Siamak Azar
Joined Ev-Yol Company in 2010 in charge of workshop chairman. Since 2012 he has been working with this company as project manager in many different projects.
Educational Record
Bachelor of Science in Civil Engineering, State University of Technique & Proficiency, Azerbaijan, 1998
Background
Liable of Supervision and Execution in ALISH ASTARA Co. & IRAN SILOO Co., Site supervisor at LAHROD Co. & SAZVAR Co.
6. Shahreyar Zaheri
Joined Ev-Yol Company in 2009 as Supervisor of (Building) Abniyeh Unit. Since 2011 and in addition to that former position, he was also appointed as member of operation board and project manager at Ev-Yol project of OMRAB
Educational Record
Bachelor of Science, Avicenna University of Hamedan, 1997
Background
In charge of (Building) Abniyeh Unit, Liable of technical office, Executive manager, Chairman of site and project manager at TABAN SHAHR Co.
7. Nikrooz Khosravani
Joined Ev-Yol Company in 2008 in charge of Human Resources' Supervisor. in the year of 2011 he also held the position of quality management and representative of management in quality.
Educational Record
Associate's degree in Primary School Education, Islamic Azad University, 1994
Background
Head of valuation and Administrative Affairs of the Teachers employed by Ministry of Education.

Departments

Engineering and Development

Technical Office

Project Control and Planning Office

Design & Study Office

Engineering and Development Deputy in Ev-Yol Company renders related services consciously for projects and through its staff's expertise, experience and knowledge and by applying the most up-to-date common international soft wares.

This deputy is active in three departments of technical office, project control and planning, design & study.

Presenting services such as price estimation and offer, sources estimation and projects' volumes, contracts' affairs, drawing and architectural studio, engineering design and study in relation with whole company's activities, managing sites' QA/QC units compatible with private, technical features and quality international standards, financing budgets, projects' plan and schedules, planning all required sources to execute projects on basis of Project Management Body of Knowledge (PMBOK) as well as administrative, precious and organized control at the time of project implementation, ensuring the adequacy of project progress in accordance with the plan and preventing probable deviation, are all responsibilities of this deputy.

The staff working in Research & Development unit of this deputy goes shoulder in shoulder with the world technology progress making Ev-Yol know and apply the most up-to-date technology. The experts in this deputy are all educated of master, bachelor and Ph.D programs from reliable universities and they all have the knowledge of using the most developed software.

I.C.T Department

Information Communication Technology unit was put into operation with the aim of rendering technical and engineering services related to Information Communication Technology in Ev-Yol company and its subsidiaries.

As a capable company, this unit meets hardware, software, information and communication needs of the users within the holding company, sites and subsidiary companies on basis of client-oriented structures and work processes and through the staff's several years of experience, knowledge and expertise.

Rendering continuous services to all other units in Ev-Yol company such as technical and executive unit, machinery and trading, financial unit, human resources unit, administrative unit and making users equipped with hardware modern equipments, software up-to-date equipments and internet, Information Communication Technology unit has provided the field of ever-increasing progress for all aforementioned expertise units.

Quality Management Department

Quality management unit was established in 2008 in Ev-Yol and in its subsidiary sites. The main task of this unit is documentation of policies, systems, plans, executive methods and agenda.

Applying total quality management leads to sequential and ongoing control of the works and consequently to recognition of errors and removal of probable errors in future. Quality management means every member of a group take his attempts to improve efficiency or capacity of service-rendering and effectiveness with the aim of increase in clients' satisfaction.

Administration Department
Managing Director Office
Financial Department

Awards

In the name of God

Ev-Yol Construction Company

This is thereby to appreciate all your efforts toward implementation of
" Tangab Firouzabad dam"

We pray for your ever increasing successes

M.R. ATTARZADEH
Deputy minister of Power

Islamic Republic of Iran

Ministry of Power

In The Name of God

Ev-Yol Construction Company;

I appreciate Ev-Yol company for its valuable effort in construction of two dams near Tabas (Kurit and Nahrein) which is a sign of abilities of the engineers, native to the Islamic country.

I wish an ever-increasing success for managers and personnel of that company in making improvements for the Islamic Republic of Iran.

H. Bitaraf,
Minister of Power
2005-08-15

Islamic Republic of Iran
Ministry of Power
In The Name of God

Ev-Yol Construction Company

Construction of "Ardebil Reservoir Dam" with planning and management abilities of native engineers is another step towards the autonomy and progress of the country, and, promises a shining future for the Islamic Iran.

I congratulate this success to managers and personnel of that company (Ev-Yol).

S. M. Khatami,
President of Islamic Republic of Iran
2004-06-30

In The Name of God

Mr. Salar Aliari
Managing Director of Ev-Yol
Construction Co.

Contractor of Yadegar-Emam Highway (Lot3)

Respectfully, considering your precious experience and precedence in social, civil and developmental fields in this territory and to encourage you to continue your programs and activity, this is to appreciate you for all your attempts and endeavors and wishing you increasing success under the blessings of God Almighty.

Mohammad-Bagher Ghalibaf,
The Mayor of Tehran
2008-03-18

Machinery & Equipment

Equipment Name	Quantity	unit
Pipe Jacking Φ 2200 mm	1	Set
Pipe Jacking Φ 1400 mm	1	Set
Bulldozer	19	Machine
Loader	32	Machine
Excavator	18	Machine
Grader	8	Machine
Dump Truck	18	Machine
Truck Mixer	21	Machine
Truck	68	Machine
Trailer Truck	14	Machine
Drill Jumbo	2	Machine
Drill Wagon	15	Machine
Hydraulic Hammer	8	Machine
Roller	35	Machine
Tower Crane	2	Machine
Mobile Crane	18	Machine
Tanker	14	Machine
Crusher Plant	15	Set
Batching Plant	15	Set
Asphalt Plant	2	Set
Asphalt Finisher	4	Machine
Concrete Pump	12	Machine
Air Compressor	28	Machine
Power Generator	55	Machine
Shotcrete Pump	19	Machine
Drilling Set	51	Set
Grouting Unit	10	Unit
Tractor	20	Machine
Dumper	5	Machine
Bus	3	Machine
Pickup	59	Machine
Car	84	Machine
Ambulance	12	Machine
Cement Silo	10,000	Ton
Conex	483	M2
Minibus	6	Machine
Vibrator	53	No.
Lorry Bunker Cement	4	Machine
Welding Instrument	21	Machine
Weighbridge	7	Machine
Cutting and Bending Bar	18	Set
Modular Frame	4,500	m2
Lining Frame	750	m2

Sewerage Lining Frame	780	m2
Total Station Surveying Equipment	7	Set
Copper Water-Stop Profile Roll Forming Machine	1	Machine
Jet Fan	12	No.
Carwash	11	Machine
Construction Lifts	80	Machine
Pneumatic Hammer	13	Machine

Dam Projects

- Gelevard Reservoir Dam - D&B
(Concrete Face Rockfill Dam)
- Cheshmeh Ashegh Reservoir Dam
(Roller Compacted Concrete)
- Uma Oya Multipurpose Development Project Dayraba & Puhulpola Dams
(Roller Compacted Concrete)
- Tangab Reservoir Dam
(Rockfill Dam with Oblique Clay Core)
- Kurit Reservoir Dam
(Concrete Gravitational -Arched Dam)
- Yamchi (Ardebil) Reservoir Dam
(Earth Dam with Clay Core)
- Nahrain Reservoir Dam
(Earth Dam with Clay Core)
- Karoon 4 Reservoir Dam Diversion Tunnels & Baloot Boland Road Reconstruction
- Shurabil Project
(Earth Filled Diversion Dam & Irrigation System)
- Sufi- Chai Multi-Purpose Project
(Earth Filled Diversion Dams & Irrigation Canals)
- Shelgerd Diversion Dam & Tunnel (Primary Project)

Gelevard Reservoir Dam - D&B (Concrete Face Rockfill Dam)

Under Construction - DAM

IRAN-MAZANDARAN

Start/Finish Dates

2009/2014

Employer

Mazandaran Regional Water

Owner Consultant

Sakoo Consulting Engineers

Updated Contract Price

177,000,000 USD

Reservoir Volume

115,500,000 m³ Annual

Annual Water Discharge

189,000,000 m³

The project engineer is Ab-Niru Consulting Engineers that is the responsible partner for engineering works in the joint venture made of Ev-Yol and Ab-Niru.

Stuky Ltd is also employed by the joint venture for approval of the key structures design.

Gelevard reservoir dam Located at Neka river at 45 km. far from south-east of Neka city-Mazandaran. The contract includes all works needed for Design and Construction of dam and appurtenant structures such as dam body (CFRD), spillway, galleries, water-tight curtain, intake & valve-house structures, bottom-outlet & irrigation tunnel and complete hydro-mechanical, electrical & instrumentation works. Main purpose of the project is to supplying irrigation water to Neka and Beh-shahr area, and to protect them from floods & improvement of animal husbandry.

Specifications

Height of dam from foundation: 113 m

Length of crest: 270 m

Excavation: 2,350,000 m³

Rock filling: 2,640,000 m³

Steel works: 4,100 ton

Formworks: 90,000 m²

Concrete: 97,000 m³

Diversion system consists of two earth filled cofferdams and diversion tunnel 450m length and 5m diameter

Lateral spillway with ogee

Spillway capacity: 1,940 m³/s

length of galleries: 3,400 m

Grouting curtain: 250,000 ml

Grout cement:40,000 ton

Cheshmeh Ashegh Reservoir Dam (Roller Compacted Concrete)

Under Construction - DAM

IRAN-FARS

Start/Finish Dates

2009/2014

Employer

Fars Regional Water Authority

Engineer

Tehran-Sahab Consulting Engineers

Updated Contract Price

37,000,000 USD

Reservoir Volume

70,000,000 m³

Annual Water Discharge

53,000,000 m³

This project is located at the Cheshme Ashegh river in Shiraz 96 km far from Neyriz city and at the south side of the Vazire village. The aim of the project is to meet the need of the agricultural and industrial water of the region.

Unique experience

The 3 meter long concrete core got from the RCC dam body with no visible joints (30 cm layers).

Specifications

Height of dam from foundation: 60 m

Length of crest: 360 m

Width of crest: 6 m

Excavation: 450,000 m³

Formworks: 40,000 m²

Concrete: 230,000 m³

Diversion system consists of two earth filled cofferdams and diversion tunnel.

Length of diversion tunnel: 105 m with 5m diameter

Spillway with ogee weir, flip bucket

Width of shoot: 36 m

Steel works: 900 ton

Uma Oya Multipurpose Development Project Dyraaba & Puhulpola Dams (Roller Compacted Concrete)

Under Construction - DAM

SRI LANKA-BANDARAWELA

Start/Finish Dates

2012/2014

Employer

Farab Co.

Engineer

Mahab Ghodss - Pöyry Joint Venture

Updated Contract Price

35,500,000 USD

The Uma Oya Multipurpose Development Project is located at the south eastern slope of the central highland of Sri Lanka. This project consists of 2 RCC dams with 35 & 50 heights with spillway and intake and lateral equipment.

Specifications

Dyraaba Dam

Height of dam from foundation: 46 m

Length of crest: 165 m

Crest width: 6 m

Width of dam in foundation: 40 m

Length of spillway: 43.5 m

Length of culvert: 56 m

Puhulpola Dam

Height of dam from foundation: 30 m

Length of crest: 174 m

Crest width: 6 m

Width of dam in foundation: 31 m

Length of spillway: 60 m

Length of culvert: 46 m

Dyraaba & Puhulpola Dams

Excavation: 120,000 m³

Formworks: 28,000 m²

Steel works: 2,400 Ton

CVC concrete: 72,000 m³

RCC concrete: 48,500 m³

Tangab Reservoir Dam (Rockfill Dam with Oblique Clay Core)

Completed - DAM

IRAN-FARS

Start/Finish Dates

Contract No.1 2002/2008

Contract No.2 2008/2012

Employer

Fars Regional Water Authority

Engineer

Ab-Niru Consulting Engineers

Total Updated Contract Prices

115,000,000 USD

Reservoir Volume

180,000,000 m³

Annual Water Discharge

120,000,000 m³

This dam located at 90 km south east of Shiraz city near Firouzabad town, over Firouz-abad River. Main purpose of the project is supplying irrigation water to Firouz-abad area.

Unique experience

In this project a special method has been used for water tightening foundation. It has been construction of the water curtain involving drilling parallel boreholes in order to wash the fine compacted soil particles out of fractured and fissured rock and the alluvium layer between the bottom of the cut-off wall and the bedrock. Another useful and time-saving technique utilized in the project was the excavation of a 770 meter long grouting gallery about 40 meters under the river bed to be used for drilling the upward boreholes for washing out the fine particles. The gallery was also used for grouting cement grout through the alluvium.

Specifications

Height of dam from foundation: 55 m

Length of crest: 270 m

Earth works: 2,300,000 m³

Steel works: 5,000 ton

Concrete: 120,000 m³

Diversion system consists of two earth filled cofferdams (as parts of dam body) and diversion tunnel

Length of diversion tunnel: 330 m

Lateral spillway with ogee

Ogee length: 150 m

Grouting galleries: 2,800 m

Cutoff wall: 3,600 m²

Water curtain and consolidation grouting: 180,000 m

Kurit Reservoir Dam (Concrete Gravitational -Arched Dam)

Completed - DAM

IRAN-YAZD

Start/Finish Dates

2001/2005

Employer

Yazd Regional Water Authority

Engineer

Ab- Pooy Consulting Engineers

Updated Contract Price

37,200,000 USD

Reservoir Volume

7,580,000 m³

Annual Water Discharge

103,000,000 m³

This dam located at 56 Km south-east of Tabas city near Chiruk village, over Kurit river and close to Kurit historical masonry arched dam. Main purposes of the project are seasonal flood protection, supplying irrigation and potable water to Tabas area and saving Kurit historical dam.

Specifications

Dam body consists of concrete arched dam in the mid-part and gravity at abutments, related structures including intake, outlet and spillway.

Height of dam from foundation: 53 m

Length of crest: 345 m

Excavation: 359,000 m³

Steel works: 492 ton

Formworks: 36,000 m²

Concrete: 120,000 m³

Grouting curtain: 16,000 m

Diversion system consists of earth filled cofferdam and diversion gallery

Diversion channel: 4 m wide, 87 m long

Access road length: 10 km

Yamchi (Ardebil) Reservoir Dam (Earth Dam with Clay Core)

Completed - DAM

IRAN-ARDEBIL

Start/Finish Dates

Contract No.1	1996/2005
Contract No.2	2003/2005
Contract No.3	2005/2008

Employer

Ardebil Regional Water Authority

Engineer

Band-Ab Consulting Engineers

Total Updated Contract Prices

114,000,000 USD

Reservoir

Volume: 82,000,000 m³

Annual Water Discharge

120,000,000 m³

This dam located at 20 km south east of Ardebil city in road to Sarab city, over Balkhlichai river. Main purposes of the project are supplying irrigation and potable water to Ardebil area. The project had been suspended due to budget deficit from 1997 to 1999. After this period we beat records of earth filling with amounts more than 22,000 m³/day and 490,000 m³/month.

Specifications

Height of dam from foundation: 66 m

Length of crest: 870 m

Excavation: 5,400,000 m³

Earth filling: 6,920,000 m³

Steel works: 5,500 ton

Concrete: 67,200 m³

Diversion system consists of earth filled cofferdam (as a part of dam body) and diversion tunnel

- Two cofferdams with the height of 12 m in upstream and 5m in downstream as parts of dam body and cutoff wall of cofferdam
- Two tunnels have been constructed with the diameter of 3.16 m. One of them is 450 m long for water diversion and intake and the other with the length of 430 m for water diversion and bottom outlet

Lateral spillway with ogee

- Crest width: 50 m

- Spillway capacity: 1,620 m³/s

Grouting gallery: 880 m

Water tight grouting: 4,800 m

Consolidation grouting: 7,300 m

Nahrain Reservoir Dam (Earth Dam with Clay Core)

Completed - DAM

IRAN-YAZD

Start/Finish Dates

Contract No.1 2001/2006

Contract No.2 2005/2006

Employer

Yazd Regional Water Authority

Engineer

Ab-Pooy Consulting Engineers

Total Updated Contract Prices

37,500,000 USD

Reservoir Volume

4,860,000 m³

Annual Water Discharge

9,850,000 m³

This dam located at 21 km west of Tabas city near Niaz village, over Nahrain River. Main purposes of the project are seasonal flood protection, supplying irrigation and potable water to Tabas area.

Specifications

Height of dam from foundation: 60 m

Length of crest: 320 m

Excavation: 1,198,000 m³

Earth filling: 1,182,000 m³

Steel works: 620 ton

Formworks: 13,000 m²

Concrete: 20,000 m³

Diversion system consists of earth filled cofferdam (as a part of dam body) and diversion gallery

Diversion gallery with horseshoe section: 400 m long

Lateral spillway with ogee

Grouting for water tight curtain: 28,000 m

Karoon 4 Reservoir Dam Diversion Tunnel & Baloot Boland Road Reconstruction

Completed - DAM

IRAN-CHARMAHAL&BAKHTIARI

Start/Finish Dates

1997/2001

Employer

Iran Water & Power Resources Development Co.

Engineer

Mahab Ghodss Consulting Engineers

Updated Contract Price

72,600,000 USD

This project located at position of Karoon 4 dam, in the middle of Shar-e-kord to Izeh road. The project is primary works need prior to construction of Karoon 4 dam. It consists of establishment of camping facilities, construction of road alternative to existing Baloot Boland road and construction of tunnels to divert the river from the location of dam.

Specifications

Total length of two diversion tunnels: 1,300 m

Internal diameter of concrete lined tunnels: 11 m

Total length of Access tunnels (adit) with diameter of 5.9 m: 300 m

Tunnel excavation: 160,000 m³

Grouting: 95,000 m

Concrete: 49,700 m³

Reconstruction of Baloot Boland road: 25 km

Earth works of campus: 720,000 m³

Building facilities: 5,500 m²

Shurabil Project (Earth Filled Diversion Dam & Irrigation System)

Completed - DAM

IRAN-ARDEBIL

Start/Finish Dates

1996/2000

Employer

Ardebil Regional Water Authority

Engineer

Band-Ab Consulting Engineers

Updated Contract Price

17,600,000 USD

Volume of Shurabil Reservoir

14,000,000 m³

This project located near Ardebil city. Main purpose of the project is reserving over-stream water of Balkhi-Chai river in Shurabil reservoir and supplying irrigation water for parts of Ardebil area.

Specifications

An earth filled diversion dam in 100 m long and 4 m high

Length of canal: 10.6 km

Concrete: 168,000 m³

Sufi- Chai Multi-Purpose Project (Earth Filled Diversion Dams & Irrigation Canals)

Completed - DAM

IRAN-EAST AZERBAIJAN

Start/Finish Dates

1993/1999

Employer

East Azerbaijan Regional Water Authority

Engineer

Mahab- Ghodss Consulting Engineers

Updated Contract Price

59,300,000 USD

Area of Under Irrigation Lands

182 Hectares

This project located near Maragheh city, over Mardagh-Chai and Sufi-Chai rivers. Main purpose of the project is supplying irrigation water to Maragheh area.

Specifications

5 earth filled diversion dams and 195 km canals:

- Maragheh & Khaneghah diversion dams, for supplying main canals of the right and left banks
- Alavian canal for supplying primal upstream of the Maragheh city
- Meimounagh dam and Tashtashi channel for Meimounagh zone
- GharehNaz dam and GharehNaz channel for GharehNaz zone
- SheikhBaba dam for irrigation of Malekan lands

Earth works: 6,000,000 m³

Concrete: 168,000 m³

Road Projects

PolSefid-Ghaemshahr Road (Lot 1)

South Mond Road Reconstruction

Ganjgah Sorkh Abad Road (Lots 2, 3, 4)

Yadegar-e-Emam Highway (Lot 3)

Kalat-e-Naderi Road (Primary Project)

Javerdeh-Dehdasht Road (Primary Project)

Musa Abad-Torbate Jam Road (Primary Project)

PolSefid-Ghaemshahr Road (Lot1)

Under Construction - Road

IRAN-MAZANDARAN

Start/Finish Dates

2010/2014

Employer

Ministry of Road and Transportation

Engineer

Pooner Consulting Engineers

Updated Contract Price

65,000,000 USD

This project located at Mazandaran province, between PolSefid and Ghaemshahr cities and consists of excavation & earth filling works in soil and rocks, construction of bridges, tunnels, culverts & retaining walls, slope stabilization works and asphaltic pavement.

Mazandaran province is located at north of Iran, along Alborz mountains. So it is converted to one of the most attractive places for tourism in Iran because of presence of beautiful forests and nice weather. By completing and using this road, because of improvement of traffic between Tehran and Mazandran, easier transportation would be achieved both for local beneficiaries and tourists. Reduction of environmental and pollution problems and waste of energy is also considered in construction of this road.

Specifications

Length of project: 22 km

Totally 93 culverts

Special bridges: 6 No.

Length of Retaining walls in concrete or masonry: 12 km

Earth works: 1,200,000 m³

Steel works: 6,000 ton

Formworks: 200,000 m²

Concrete: 156,000 m³

Nailing: 89,000 ml

Geogrid: 53,000 m²

Sub base: 65,000 m³

Base: 110,000 m³

Asphalt: 265,000 ton

South Mond Road Reconstruction

Completed - Road

IRAN-BUSHEHR

Start/Finish Dates

2009/2013

Employer

Iran National Oil Company, Oil Engineering and Development

Engineer

Gostaresh Shargh Rah Consulting Engineers

Updated Contract Price

17,500,000 USD

This project is located at 95 km south-east of Bushehr city and provides access to oil well No. 6 from coast road in Lavar region. It consists of geometric modification of road, widening, rock excavation, slope stabilization, performing pavement and finishing.

Specifications

Total length of project: 23 km

Totally 28 culverts

Earth works: 1,200,000 m³

Concrete: 40,000 m³

Formworks: 18,000 m²

Masonry: 11,000 m³

Sub Base: 32,000 m³

Base : 28,000 m³

Asphalt :34,000 ton

Transmission and Install steel pipe diameter

4 inch to 8 inch: 16 km

Ganjgah Sorkh Abad Road (Lots 2, 3, 4)

Completed - Road

IRAN-ARDEBIL

Start/Finish Dates

Contract No.1 2004/2011

Contract No.2 2011/2013

Employer

Ministry of Road and Transportation

Engineer

Passillo Consulting Engineers

Total Updated Contract Prices

129,000,000 USD

This project located at 90 km south of Ardebil city, from Firozabad village of Khalkhal toward Sorkhabad. The project is in one of the most impossible districts of the country that passes through west part of Alborz Mountains. The necessity of 9 tunnels, 9 bridges and 3 galleries in this 20 km road indicates the difficulty of the work. For execution of the main road near to 80 km access road has been constructed.

Specifications

Total length of project: 20 km

Totally 9 tunnels with total length of 3,160 m, the longest one is 1,060 m long)

Totally 9 great bridges with total length of 636 m, the largest are Ghezelozan bridge with 8 spans each one 21 m long, and Mazra'e bridge with 5 spans each one 20 m long, and one single span steel bridge 36 m long.

Totally 3 galleries with total length of 230 m

Totally 60 culverts

Retaining walls in concrete or masonry, totally more than 3,200 m

Earth works: 5,500,000 m³

Steel works:6,500 ton

Heavy steel works: 1,300 ton

Formworks: 180,000 m²

Concrete: 240,000 m³

Masonry: 110,000 m³

Sub base: 40,000 m³

Base: 19,000 m³

Asphalt: 65,000 ton

Access roads: 80 km

Yadegar-e-Emam Highway (Lot 3)

Completed - Road

IRAN-TEHRAN

Start/Finish Dates

Contract No.1 2003/2008

Contract No.2 2008/2010

Employer

Tehran Municipality

Engineer

Passillo Consulting Engineers

Total Updated Contract Prices

79,000,000 USD

Specifications

Total length of project contains major axis, minor axis, ramps and loops: 13,335 m

Width of highway: 30 m

6 bridges with different length & bays:

-One double span bridge, each span 16.5 m long

-One underpass bridge with a 12 meter span & 35 m width

-Box culvert bridge with a 9 meter span and 180 meter length

-One underpass with a 12 meter span and 42 meter length

-The great bridge over Darake river with a 30 meter span and 160 meter length in two separate 15 meter bonds

-The great bridges over Chamran highway as flyover junction with six 26 meter spans and four spans with average length of 20 meter totally 226 meter length in two separate bonds of 15 meter

Total length of retaining walls with 1 to 15 meters high: 3,900 m

Earth works: 1,200,000 m³

Steel works: 5,100 ton

Heavy steel works: 2,200 ton

Formworks: 150,000 m²

Concrete: 90,000 m³

Masonry: 66,000m³

Sub base: 13,900 m³

Base: 12,700 m³

Asphalt: 46,000 ton

Treatment Plant Projects

- Khin-Arab Waste Water Treatment Plant - EPC
- AQRA Water Treatment Plant - EPC

Sewerage Projects

- Eastern Tehran Sewerage Tunnel - D&B (Lot 4)
- Eastern Tehran Sewerage Tunnel (Lot 2)
- Sabalan Drainage Tunnel

Pumping Station Project

- Lar Dam Reservoir Pumping Station - Turn Key

Hydro-power Station Project

- Saveh Hydro-power Station & Irrigation System - Turn Key

Waste Incineration Plant Project

- Sari Waste Incineration Plant (450 ton)

Oil & Gas Projects

- Aboozar & Bahregan Platforms Tie-in Project
- Zireh Oil Shaft No. 1 (Primary Project)

Khin-Arab Waste Water Treatment Plant – EPC

Under Construction - Treatment Plant

IRAN-KHORASAN RAZAVI

Start/Finish Dates

2010/2014

Employer

Mashhad Water and Waste Water Company

Project Manager

Tarh va Tosee Karavar & Kavosh Pay Mashad J.V.

Engineer

Pars Ab Tadbir Consulting Engineers

Updated Contract Price

29,000,000 USD

14,500,000 €

Procurement of plant, design, supply, and installation of Khin-Arab (Mashhad) waste water treatment plant project containing:

- 1-Design and engineering of the civil, mechanical, electrical, control and instrumental works.
- 2-Supplying, providing, manufacturing, inspection. testing in factory, transportation to project site, installation, pre commissioning, commissioning and trial operation of plant.
- 3-Operation, training program and any other related facilities stipulated on the contract.
- 4-Complete supplying, providing, transportation and construction of main sewer pipe line and 25 dependent manholes, appurtenance and equipment's by length of 2,110 meter with 1,800 mm diameter concrete pipe with internal PE cladding.

In performance of waste water treatment plant in Khin-Arab, the methodology of ICEAS (Intermitting cycle extended aeration system), has been used for processing of an average of 83,000 m³/day, and maximum capacity of 7,200 m³/hr, for 430,000 population.

This project is under contract of Omrab - Ev-Yol J.V.

Specifications

Excavation: 185,000 m³

Earth filling: 78,000 m³

Steel works: 3,200 ton

Concrete: 30,000 m³

Formworks: 57,000 m²

Purchase, transportation and installation of waste water treatment equipment considering as 60% amount of contract

AQRA Water Treatment Plant – EPC

Under Construction - Treatment Plant

IRAQ-ERBIL

Start/Finish Dates

2012/2014

Employer

Ministry of Municipality & Tourism

Contract Price

89,500,000,000 Iraqi Dinars

The work for this contract comprises the development of water supply system to feed AQRA area with potable water with a total design flow of 3,000 m³/hr through procurement of plant, design, supply, and installation of water treatment plant & 105 km pipeline & 46 km 33 kv O.H.Line.

The worksite is located at Duhok Governorate Aqra district and supply the following villages Bekhma, Sharafona, Steriya, Kasrook, Galook, Sofla, Zewa, Nerwa, Soriya, Galook Olya, Khara, Sosnawa, Kalat, Bijeel, Joona, Bashkal Rawand, Baskl Agha, Klavi and the intake located to near to Bekhma Village.

This project is under contract of Omrab-Ev-Yol - Hardam J.V.

Specifications

Water treatment plant

Water intake structure

Water reservoirs

Electrical installations

Length of power transmission line and electrical installations including construction of power supply network

33 kv: 46 km

Control systems & instrumentation

Telecommunication system

Water network

-Pipe line with different diameter: 105,000 ml

Eastern Tehran Sewerage Tunnel - D&B (Lot 4)

Completed - Sewerage

IRAN-TEHRAN

Start/Finish Dates

2005/2011

Employer

Tehran Sewerage Company

Engineer

Lar Consulting Engineers

Updated Contract Price

50,000,000 USD

This is a part of Eastern Tehran waste water collection system as well as its conveyance to Shahr-e-Rey waste water treatment plant. It contains 9.6 km tunnel, 21 shafts for mechanical equipment, and 17 shafts for tunnel access.

It follows under the streets: North-Sabalan, South-Sabalan, Damavand, 30m Niro-e-havaiee, Masoudian, 2nd-Niro-e-havaiee, Pirouzi and Parastar.

This tunnel is a part of main eastern sewerage tunnel of Tehran toward Shahr-e-rey treatment plant. Total length of project is 9,700 meter.

Specifications

Concrete lined tunnel with oval shaped section:

-Length of section with 2,000 mm wide and 2,700 mm high: 6,479 m

-Length of section with 1,700 mm wide and 2,300 mm high: 3,125 m

Minimum and maximum slopes of tunnel are 0.005 and 0.018

Vertical shafts:

-Total number of shafts: 38

-Average depth of shafts: 12 m, from 6 m up to 24 m

-Internal diameter of shafts: 2,400 mm

Tunnel excavation: 78,600 m³

Shaft excavation: 4,000 m³

Surface stabilization: 97,700 m²

Steel works: 2,750 ton

Formworks: 110,000 m²

HDPE lining: 73,500 m²

Concrete: 25,300 m³

Eastern Tehran Sewerage Tunnel (Lot 2)

Completed - Sewerage

IRAN-TEHRAN

Start/Finish Dates

2003/2006

Employer

Tehran Sewerage Company

Engineer

Gueno Consulting Engineers

Contract Price

12,400,000 USD

in regard to heavy traffic site plan in Tehran metropolis, special arrangement to reduce interference with city traffic, infrastructure, aqueducts, and buildings was required.

This procedure was done in a way that access wells and shafts with related organization permission, wells locations establishment, and hand worked excavation with caution to ensure that there is no conflict with infrastructure. Tunneling operation has done by means of human power and hand tools. Also waste was removed through access wells.

Specifications

Concrete lined tunnel with oval shaped section:

-Length of section with 2,850 mm wide and 3,300 mm high: 2,300 m

Total number of shafts: 9

Length of Diversion aqueduct between Zaman-abad and Ashraf-abad: 1,200 m

Tunnel excavation: 40,000 m³

Concrete: 7,500 m³

Steel works: 1,300 ton

Sabalan Drainage Tunnel

Completed - Sewerage

IRAN-TEHRAN

Start/Finish Dates

2002/2004

Employer

Khakriz-Ab Company (Subsidiary of Tehran Municipality)

Engineer

Omran Mohit Zist Consulting Engineers

Contract Price

4,000,000 USD

This project located at Tehran, from South-Sabalan Street to Damavand Street and connected to beginning of 17th-Shahrivar tunnel. This tunnel is a part of surface runoff collector system in the east of Tehran.

Specifications

Concrete lined tunnel with oval shaped section:

-Length of diameter of equivalent circular section, 1,800 mm: 1,600 m

-Length of diameter of equivalent circular section, 2,100 mm: 400 m

Construction of basins, manholes, junctions and other related structures

Tunnel excavation: 14,000 m³

Steel works: 600 ton

Concrete: 5,380 m³

Lar Dam Reservoir Pumping Station -Turn Key

Completed - Pumping Station

IRAN-TEHRAN

Start/Finish Dates

1998/2000

Employer

Tehran Regional Water Authority

Engineer (Supervisor)

Tehran Boston Consulting Engineers

Updated Contract Price

30,400,000 USD

Pumping Discharge

18.5 m³/s with 10 m head

8.5 m³/s with 20 m head

This project located at right bank of Lar dam reservoir, near Polur city in Tehran province. Special structure of bed rock at right bank of reservoir (existence of Karstic zone with lots of faults) causes escaping of water from the bed and bulwarks of the reservoir. This flow might be more than 5 m³/s. The more consumption the lower level of water, and the intake tunnel will be unusable. So a pumping station was constructed with maximum discharge of 18.5 m³/s for supplying water to Lar-Kalan water transmission tunnel.

Specifications

Tunnel and shaft excavations: 27,000 m³

Open excavations: 30,000 m³ Consolidation grouting: 5,000 m

Surface stabilization: 7,800 m²

Steel works: 850 ton

Formworks: 8,600 m²

Concrete: 8,800 m³

Control and shaft buildings: 2,200 m²

Saveh Hydro-power Station & Irrigation System - Turn Key

Completed - Hydro-power Station

IRAN-MARKAZI

Start/Finish Dates

1991/1995

Employer

Tehran Regional Water Authority

Engineer

Moshanir Consulting Engineers

Updated Contract Price

20,500,000 USD

This project located at the west of Saveh, near Asiabak village. The hydro-power station is a complementary part of Saveh dam, in order to reserve the output of the dam for irrigation purpose.

Specifications

Station output: 5 MW

tunnel of Water transmission tunnel with 4 m diameter: 410 m

Length of canal: 9.5 km

Earth works: 1,000,000 m³

Concrete: 45,000 m³

Steel works: 3,100 ton

Sari Waste Incineration Plant (450 ton)

Under Construction - Waste Incineration Plant

IRAN-MAZANDARAN

Start/Finish Dates

2013/2014

Employer

Tadbir Toseh Salamat

Engineer

Memaran Haft Bana Consulting Engineers

Updated Contract Price

28,500,000 USD

This project is located at city of Sari, the center of Mazandaran Province. Since this area has always had big problem with disposal of garbage, execution of this project will help greatly to the area with the environment rehabilitation.

Aboozar & Bahregan Platforms Tie-in Project

Completed - Oil & Gas

IRAN-PERSIAN GULF

Start/Finish Dates

2009/2011

Employer

Iranian Offshore Oil Company

Updated Contract Price

13,850,000 €

One of the important aims of client was developing existing and new facilities in the Persian Gulf from number of offshore fields, namely:

Bahregan

Nowrooz

Aboozar

Soroosh

Foroozan

Gas from these offshore fields will be gathered, dried and compressed as required prior to export via pipeline to Kharg Island. At Kharg Island new reception and processing facilities will be provided for the production of cryogenic liquid Propane and Butane.

The new facilities at Kharg Island will also gather and process gas collected from onshore facilities and of the above mentioned fields and Dorood fields. This project is under contract of Saeen - Ev-Yol J.V.

Views of Construction in Different Projects

Installation of metal decks of the bridge in two shifts due to heavy traffic

Construction of bridge pier and head in heavy traffic

Simultaneous operation of left plinth formwork, preparation of dowel execution, compaction of body rock fill layer and instrumentation cable protection

Construction of contraction joint

Installation of intake pipe within diversion tunnel

Construction of roller compacted concrete

Instrumentation

Plane loading test

Construction of cofferdam - soil cement type

Quarry extraction

Plinth construction

Middle plinth improvement

Laboratory equipment

Injection gallery of ogee formwork opening

Submerged intake structure

Construction of diversion tunnel's lining

Trenches stabilization

Copper water stop execution

Compaction and permeability test

Hope to further cooperation in your projects