



PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.



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History

Pars Garma Construction and Industrial Company was established with Companies' Registration Department on February 11, 1961 under No. 7678 with the objectives including import and export and other commercial affairs. Name of the company changed to Calory Industrial Co., Ltd. on December 3, 1963 and to Pars Garma Industrial Co., Ltd. on May 12, 1986. Type of company changed to Private Joint Stock on April 19, 1987. On June 21, 1994, company's objectives changed to all fields of design and construction of development, production, and mining projects, procurement of necessary materials, machinery, tools and parts from local and international sources. Finally, name of the company changed to Pars Garma Construction and Industrial Company on February 5, 2000.

Presentation of the Company

Relying on its valuable experiences in the field of provision of technical and engineering services, Pars Garma Construction and Industrial Company, through the approach of contracting work, design, and construction (EPC), carried out the following issues:

- 1) Design, construction, commissioning and operation of large production, industrial and mining complexes,
- 2) Construction of dams, implementation of irrigation and drainage networks, water transfer lines and marine structures,
- 3) Construction of roads, bridges, and tunnels,
- 4) Heavy metal and concrete buildings,
- 5) Development of residential townships and mass housing development,
- 6) Development of power transmission networks and high voltage substations,
- 7) Development of oil and gas refiners and gas supply networks; and
- 8) Consultative and design services in the field of construction and industry.

and producing construction materials such as concrete, asphalt, granulated materials and prefabricated concrete walls. Benefiting from expert and skilful staff for partnership with the projects of improvement, modernization and industrial development inside the nation and export of technical and engineering services to foreign countries, this Company has achieved the widespread preparation. High potentials of human capitals and widespread facilities in terms of machinery and equipment have caused that the Company has managed to successfully accomplish various projects at high quality and at desirable speed. Its commitment to optimized implementation of obligations has resulted in achieving accreditation and full satisfaction of the employers.

In order to implement infrastructure projects, Pars Garma Construction and Industrial Company has cooperated with Ministry of Energy, Ministry of Petroleum, Ministry of Roads and Urban Development, Tehran Municipality, Social Security Organization, Chabahar Free Zone Organization and other organizations and private sector and enjoys the highest rating awarded by State Plan and Budget Organization in the following fields:

Rating in design and construction:

- 1st Grade- Design and Construction (EPC) in the field of implementation of industrial projects
- 1st Grade- Design and Construction (EPC) in the field of buildings

Rating in Contract Works

- 1st Grade in the field of industry and mine
- 1st Grade in the field of facilities
- 1st Grade in the field of buildings
- 1st Grade in the field of road and transportation
- 1st Grade in the field of hydraulics
- 2nd Grade in the field of oil and gas
- 3rd Grade in the field of power

Rating in Consultation

- 1st Grade; specialty: Essential Metals Industries (Roll, Smelting and Casting) and Machine Manufacturing
- 2nd Grade; specialty: Residential, commercial, administrative, and industrial buildings
- 2nd Grade; specialty: Structure

Pars Garma Construction and Industrial Company has taken steps toward realization of Total Quality Management (TQM) goals and benefiting from EFQM and establishment of management systems, this Company realizes the expected goals of the beneficiaries. As of the year 2003, Pars Garma Construction and Industrial Company has obtained and extended IMS certifications from DQS Company of Germany and IQNET network as well as other responsible organizations as detailed hereunder:

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO45001 Occupational Health and Safety Management System
- ISO 21500 & PMBOK Project Management System
- ISO 10002 Complaints Management System
- ISO 31000 Risk Management System
- EFQM organizational excellence model and five-star letter of commendation awarded by IQNet
- Qualitative Standards for the products awarded by ISIRAN
- Participation in rating 500 top Iranian companies and achieving the 1st Rating in technical and engineering services group

Pars Garma Construction and Industrial Company has several subsidiary companies namely

- 1) Fanavaran Parsian Industrial Projects Development Company
- 2) Pars Banay-e Sadr Development and Industrial Company
- 3) Parsian Sazeh Iranian Company
- 4) Esfahan Alloyed Steel Company

Pars Garma Company is willing to actively participate in the realm of national reconstruction and by observing the standards and making its executive mechanism dynamic, this Company is on the path of realization of elevation ideals of Islamic Iran. Furthermore, in form of codified policies to meeting the constant satisfaction of the employers by providing desirable services within the shortest period of time, full observance of competitive quality and price and promoting personnel efficiency by raising their technical knowledge and seeking for their participation in various stages of deciding and execution and quality promotion through research, development and innovation in its construction procedures, this Company is willing to take effective astride to achieve bigger share of labor market.

May one day the name and reputation of this company shine across the large territory of Iran and extend beyond its borders in the light of doubled effort and diligence.

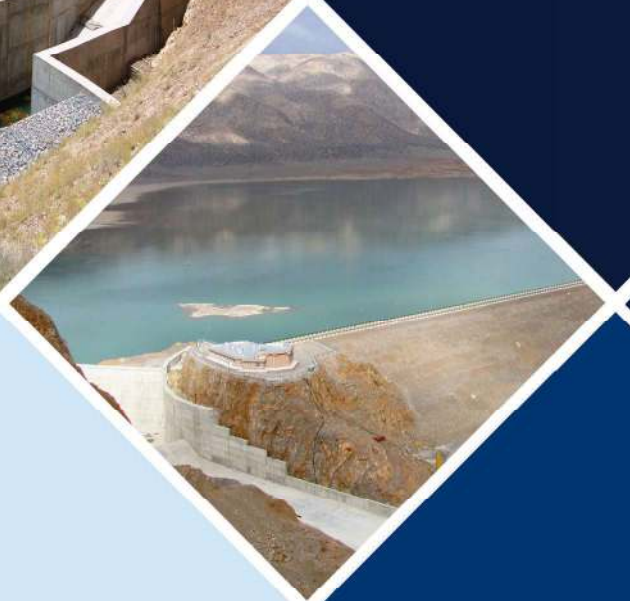
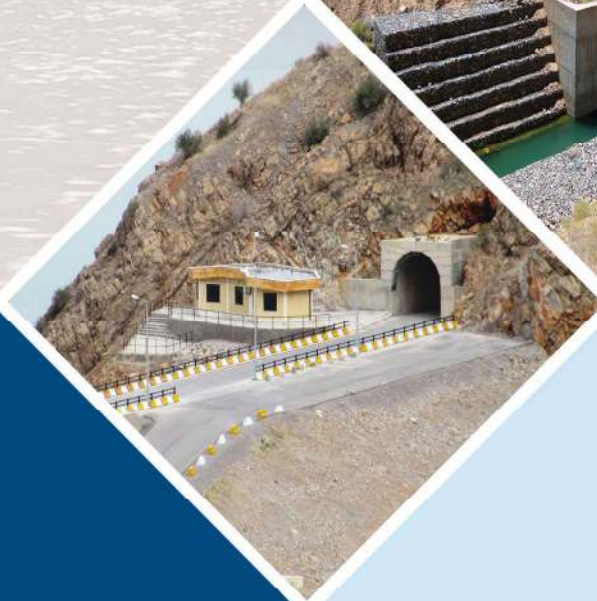
Dam construction, construction of irrigation and drainage networks





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Having obtained a "1st Grade Certificate" for qualification in dam construction operations and the associated facilities, the company has successfully concluded huge contracts with the Ministry of Energy for construction of water diversion tunnels and concrete and earth dams.



Dam construction, construction of irrigation and drainage networks



Subject :

Construction of Sivand reservoir dam and associated facilities

Place of construction:

80 Km of North of Shiraz, Fars Province

Employer :

Ministry of energy, Fars Regional Waer Joint Stock Company

Consultant :

Sakou Consultant Engineers





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Particulars of the project:

Sivand reservoir dam is located in the 80 Km of northeast of Shiraz, about 14 Km of northwest of Saadat Shahr in Fars province. The project comprises the construction of main body of the dam of earth and rockfill type with a clay core and a reservoir capacity of 255,000,000 m³, a crown length of 600 m, 10 m wide and 57 m high, plus construction of a cofferdam 33 m high, a horseshoe concrete spillway 246 m high, an output of 6,000 m³/sec, 3.5 km tunnel construction, access and injection galleries. Due to alluvial layers under the dam body, drilling and injection for a total length of 90 km for the watertight diaphragm under the dam is one of the unique dam construction projects in the nation which is currently under operation.

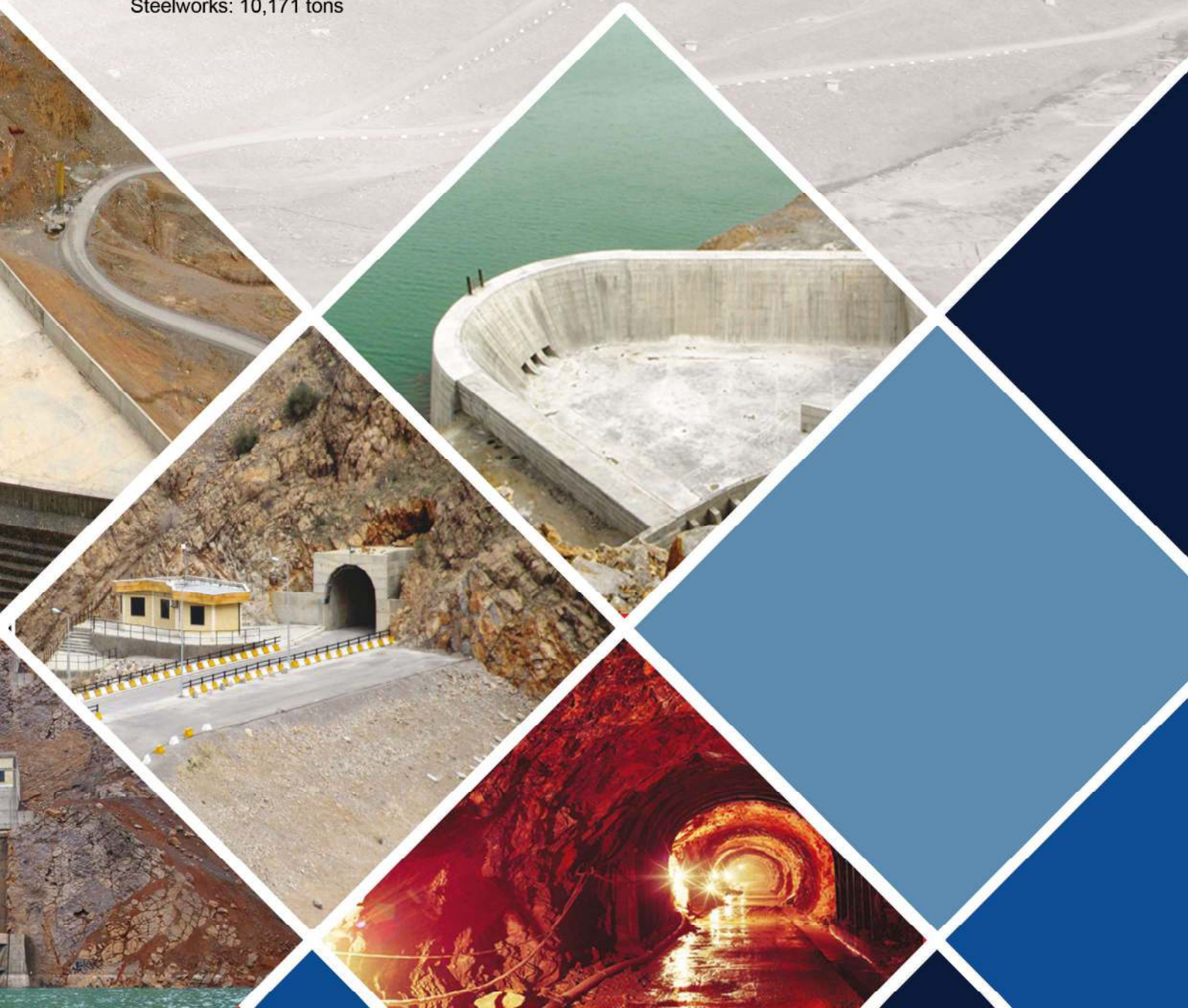
Volumes:

Excavation: 6,160,000 m³

Embankment: 4,400,000 m³

Concrete placement: 1,840,000 m³

Steelworks: 10,171 tons



Dam construction, construction of irrigation and drainage networks



Subject :

Construction of Chegin diversion dam

Place of construction:

40th km of Bandar-e-Jask, Hormozgan Province

Employer :

Ministry of energy, Hormozgan Regional Water Joint Stock Company

Consultant :

Yekom Consultant Engineers





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Particulars of the project:

Construction of a concrete diversion dam and associated facilities including:

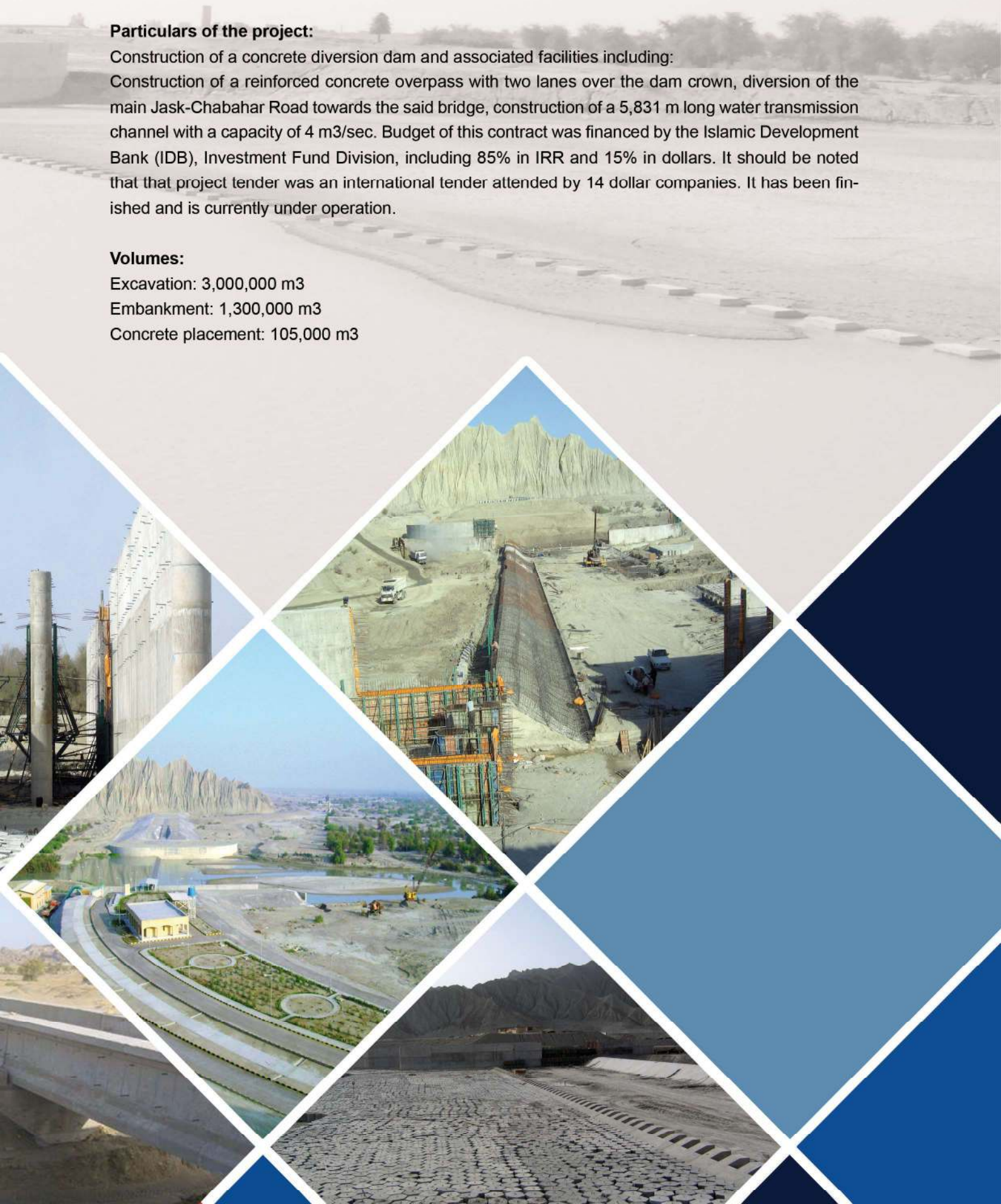
Construction of a reinforced concrete overpass with two lanes over the dam crown, diversion of the main Jask-Chabahar Road towards the said bridge, construction of a 5,831 m long water transmission channel with a capacity of 4 m³/sec. Budget of this contract was financed by the Islamic Development Bank (IDB), Investment Fund Division, including 85% in IRR and 15% in dollars. It should be noted that that project tender was an international tender attended by 14 dollar companies. It has been finished and is currently under operation.

Volumes:

Excavation: 3,000,000 m³

Embankment: 1,300,000 m³

Concrete placement: 105,000 m³



Dam construction, construction of irrigation and drainage networks



Subject :

Construction of Harat reservoir dam and associated facilities

Place of construction:

Harat County, Yazd Province

Employer :

Ministry of energy, Yazd Regional Water Joint Stock Company

Consultant :

Khak Mahr Ab Research Consultant Company



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Particulars of the project:

Construction of a reservoir dam and associated facilities, sidewalls of river drift shell type, perpendicular clay core, a total volume of 2,000,000 m³, construction of a water diversion system through a 5/3 x 4/3 culvert with a length of 600 m, a spillway with a concrete placement volume of 16,500 m³, construction of a 560 m long injection gallery, construction of water transmission line about 13 km long and construction of a watertight diaphragm for totally 15 km.

Volumes:

Excavation: 840,000 m³

Embankment (sidewalls and core): 1,954,000 m³

Steelworks: 3,883 riba

Drilling and injection: 53,000 m long



Dam construction, construction of irrigation and drainage networks



Subject : Construction of the second part of
Dasht-e Azadegan main channel (AMC), Khuzestan province

Place of construction:
Susangerd, Hamidiyeh Road Intersection, Khuzestan Province

Employer :
Ministry of energy, Khuzestan Water and Power Organization

Consultant :
Mahab Ghods Consultant Engineers Company





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Particulars of the project:

Construction of the second part of Dasht-e Azadegan main channel, 5 km long, and the initial part of MCI channel of AMC watershed in Hamidiyeh Road Intersection, Susangerd, 812 m long, under operation.

Volumes:

Excavation: 1,270,000 m³


Embankment: 1,142,000 m³

Concrete placement: 17,000 m³

Framework: 18,000 m³

Trimming: 180,000 m²





Dam construction, construction of irrigation and drainage networks



Subject : Construction of the third part of
Dasht-e Azadegan main channel (AMC), Khuzestan province

Place of construction:
Susangerd, Hamidiyeh Road Intersection, Khuzestan Province

Employer :
Ministry of energy, Khuzestan Water and Power Organization

Consultant :
Mahab Ghods Consultant Engineers Company





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Particulars of the project:

Construction of the third part of AMC and technical buildings totally 8 km long, open channel with a trapezoidal section, currently under operation.

Volumes:

Excavation: 2,271,000 m³

Embankment: 2,447,000 m³

Trimming: 302,000 m³

Lining: 27,000 m³

Framework: 260,000 m³



Dam construction, construction of irrigation and drainage networks

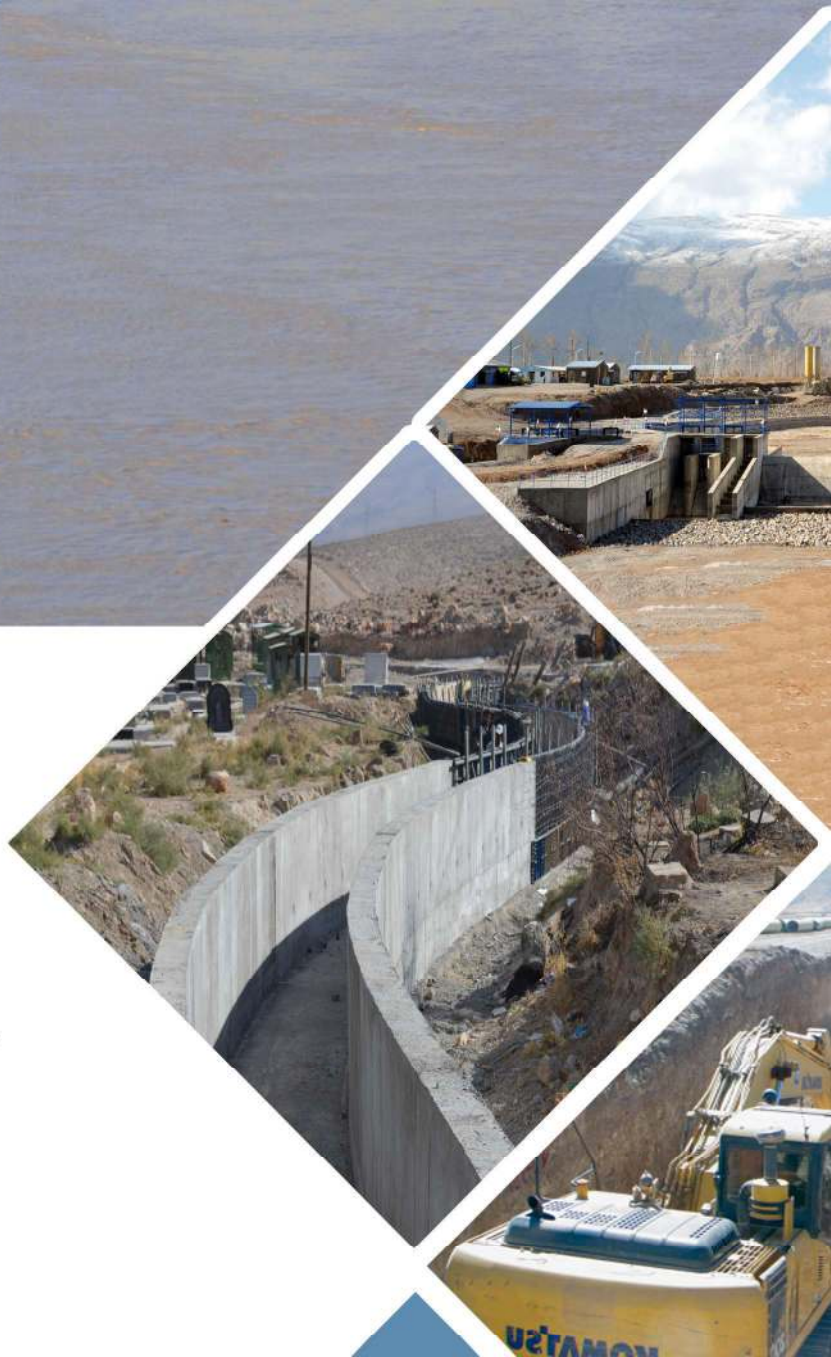


Subject : Intake structure and water
transmission box of the main channel in Arsanjan suburbs

Place of construction:
Sivand city suburbs, Fars province

Employer :
Ministry of energy, Fars Regional Water Joint Stock Company

Consultant :
Sakou Consultant Engineers





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Particulars of the project:

Construction of water intake, culvert box for 3 km and the associated facilities which are currently under operation.

Volumes:

Excavation: 955,000 m³

Embankment: 405,000 m³

Concrete placement: 31,000 m³

Framework: 62,000 m³

Steelworks: 3,220 tons



Dam construction, construction of irrigation and drainage networks



Subject : Construction of irrigation and drainage network in Arsanjan suburbs and the associated facilities

Place of construction:
Fars Province

Employer :
Ministry of Energy, Fars Regional Wate Joint Stock Company

Consultant :
Sakou Consultant Engineers





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Particulars of the project:

All operations for installation of the network of 1st grade pipes for middle and left development units by GRP pipes

All operations and installation of the network of 2nd grade pipes for middle and left development units by polyethylene pipes, construction of basins for installation of valves, installation of water and air discharge valves, construction of 1st and 2nd grade surface drainage networks in Arsanjan suburbs plus all corresponding structures and technical buildings

Volumes:

Excavation: 1,700,000 m³

Embankment: 630,000 m³

Concrete placement: 23,000 m³

Framework: 42,000 m³

Steelworks: 1,750 tons

GRP pipes, 40 km long



Dam construction, construction of irrigation and drainage networks



Subject :

Dasht-e Kovar 1st and 2nd grade irrigation and drainage networks

Place of construction:

Kovar County, Fars Province

Employer :

Fars Regional Water Joint Stock Company

Consultant :

Parab Fars Consultant Engineers





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Particulars of the project:

Construction of 1st and 2nd grade irrigation and drainage channels, 107 km long -

Construction of 46 drainage channels, 125 km long -

Maintaining the transmission of GRP pipe, 800 mm in diameter and 1,550 m in length -

About 460 technical buildings -

:Volumes

Excavation: 3,155,000 m³

Embankment: 1,384,000 m³

Concrete placement: 32,000 m³

Trimming: 335,000 m²

Steelworks: 545 tons



Dam construction, construction of irrigation and drainage networks



Subject : C24 and C25 water transmission channels,
MD2 drainage channel, Alborz Network Project

Place of construction:
Ghaemshahr County, Mazandaran Province

Employer :
Mazandaran Regional Water Joint Stock Company

Consultant :
Mahab Ghods Consultant Engineers





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Particulars of the project:

Construction of two channels with trapezoidal and flume sections, 41 km long, plus one drainage channel with trapezoidal section, 15 km long, construction of 60 technical buildings during the project

Volumes:

Excavation: 890,000 m³

Embankment: 990,000 m³

Concrete placement: 84,000 m³

Steelworks: 5,950 tons

Framework: 280,000 m²



Dam construction, construction of irrigation and drainage networks





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Other completed projects

Project of Simin Dasht to Garmsar water transmission channel, 12 km long, Employer: Tehran Regional Water Organization

Baroutkoubi open channel in Shahr-e-Ray -

Construction of Houfel-Nissan control structure including structure construction and channel digging operations in Shushtar County, Khuzestan Province

Water diversion tunnel for Salman Farsi Dam, 280 m in length and 12 m in diameter, in Fars Province

Construction of diversion gallery and stone removal at Ghareh Achagh Dam spillway in Semirrom County, Esfahan Province



Construction of jetties and breakwaters



Subject :

Construction of breakwater

Place of construction:

Sistan and Baluchestan Province

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Fara Darya Arsheh Consultant Engineers





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Particulars of the Project:

- East arm, 1,780 m long
- West arm, 1,020 m long
- Coastal dyke, 983 m long

Work volumes:

Stone operations: About 1,200,000 m³

Antifer Volume: About 240,000 m³



Construction of jetties and breakwaters



Subject :

Jetty construction and development project

Place of construction:

Hormozgan Province

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Fara Darya Arsheh Consultant Engineers



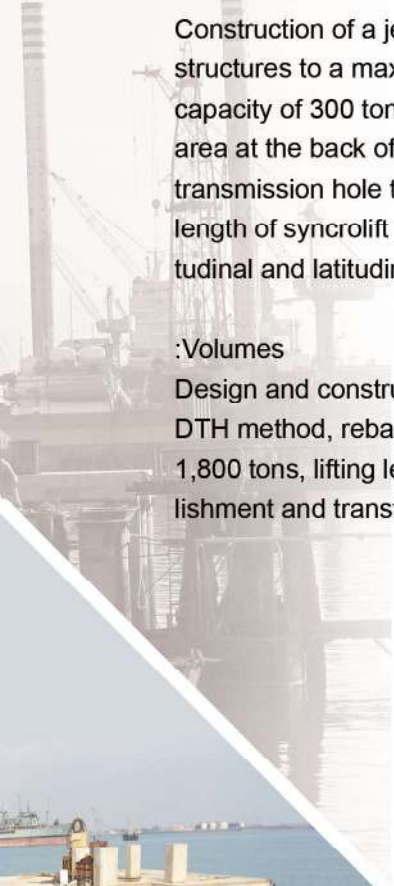
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:Particulars of the Project

Construction of a jetty for launching vessels with a capacity of 5,000 tons, construction of offshore structures to a maximum capacity of 8,000 tons, construction of Boot Hoist Steel Jetty with a lifting capacity of 300 tons, modification of lands at the end of south parking areas for 20 m to increase the area at the back of parking and to establish a berthing jetty for small and fast vessels, widening the transmission hole to 15 m, increasing the length of south parking areas to 20 m, increasing the length of syncrolift to 27 m, construction of shelters, offshore ship lift system for jetties, repair of longitudinal and latitudinal transfers of jetties, syncrolift dimensions: 145 x 62 m

:Volumes

Design and construction of nailing and micropiling to a length of 2,400 m, latitudinal transfer wall by DTH method, rebar: 200 tons, concrete: 1,000 m³, nominal tonnage: 2,400 tons, actual tonnage: 1,800 tons, lifting length: 36 m, width: 11 m, total length: 45 m, with complete lifting equipment, establishment and transfer of vessel



Road Construction





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Construction records and experiences of the company in this field are quite extensive so that it has successfully obtain a 1st rank certificate in roads and transportation from the Plan and Budget Organization. In addition to the completed projects, the company has currently several projects under construction.



Road Construction



Subject :

Construction of Dasht-e Roum to Baba Maydan main road (segments 1-4)

Place of construction:

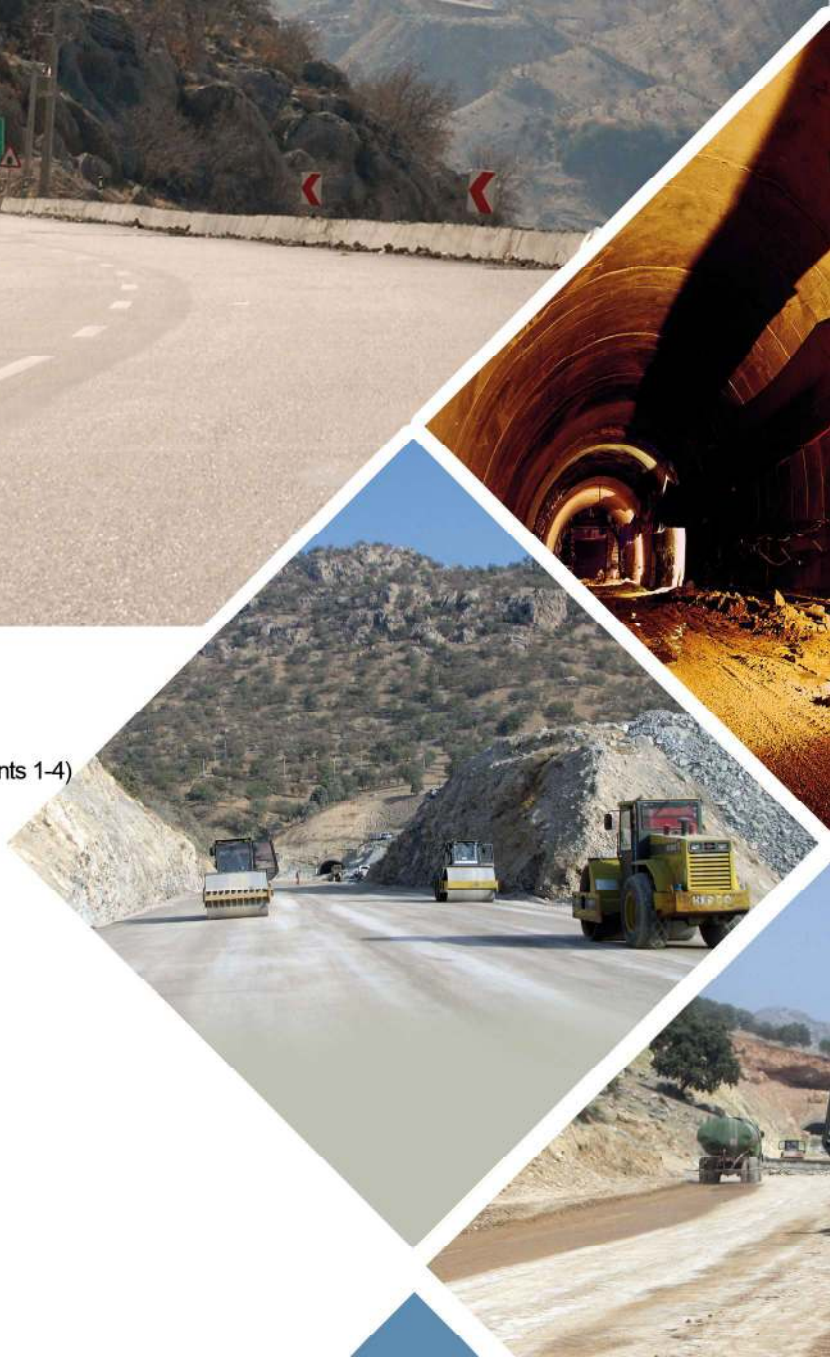
Yasouj Road, Kohgiluyeh and Boyer-Ahmad Province

Employer :

Ministry of Roads and Urban Development

Consultant :

Pars Consultant Engineers





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Particulars of the Project:

Construction of the main road for 49 km which is among the most impassable mountainous areas of the nation and consists of 8 tunnels (total length of tunnels: 3,888 m), 133 bridges (total length of bridges: 4,243 m), and two road bands totally 13 m wide.

Volumes:

Excavation: 2,200,000 m³

Embankment: 1,200,000 m³

Concrete placement: 160,000 m³

Steelworks: 2,300 tons

Base and subbase: 357,000 m³

Asphalt: 212,000 tons



Road Construction



Subject : Construction of the second part of Pataveh-Dehdasht main road for 28 km, and complementary operations of the first part for 26.5 km

Place of construction:

Kohgiluyeh and Boyer-Ahmad Province

Employer : Ministry of Roads and Urban

Development - Construction and Development of Transportation Infrastructures Company

Consultant :

Barayand Consultant Engineers





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Particulars of the Project

Construction of the second part of Pataveh-Dehdasht main road for 28 km, and complementary operations of the first part for 26.5 km, 5 tunnels totally 2,830 m. 104 culverts and 7 bridges

Project construction goals:

- 1- Reduce transit distance of the capital from Bandar Imam Khomeini and international waters (about 210 km)
- 2- A link road among 400 villages in the zone
- 3- Releasing Lodab District and Dehdasht County from dead end

Volumes:

Excavation: 1,000,000 m³
Embankment: 310,000 m³
Concrete placement: 39,000 m³
Steelworks: 3,300 tons
Base and subbase: 110,000 m³
Asphalt: 95,000 tons



Road Construction



Subject : Construction of the first part of Pataveh-Dehdasht
main road and the junction at the beginning of the road

Place of construction:

Kohgiluyeh and Boyer-Ahmad Province

Employer : Ministry of Roads and Urban

Development - Construction and Development of Transportation Infrastructures Company

Consultant :

Barayand Consultant Engineers





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Particulars of the Project

First part of Pataveh-Dehdasht main road is located between Pataveh and Dehdasht counties in Kohgiluyeh and Boyer-Ahmad Province and within 70th km of Yasouj City.

Length of the project is from kilometer 0 to kilometer 26+500, totally for 26.5 km.

Road width: 11 m, bridge construction of concrete beams and slabs, 22 m long and 12.10 m wide, retaining wall 1,100 m long

One tunnel, 400 m long

Volumes:

Excavation: 600,000 m³

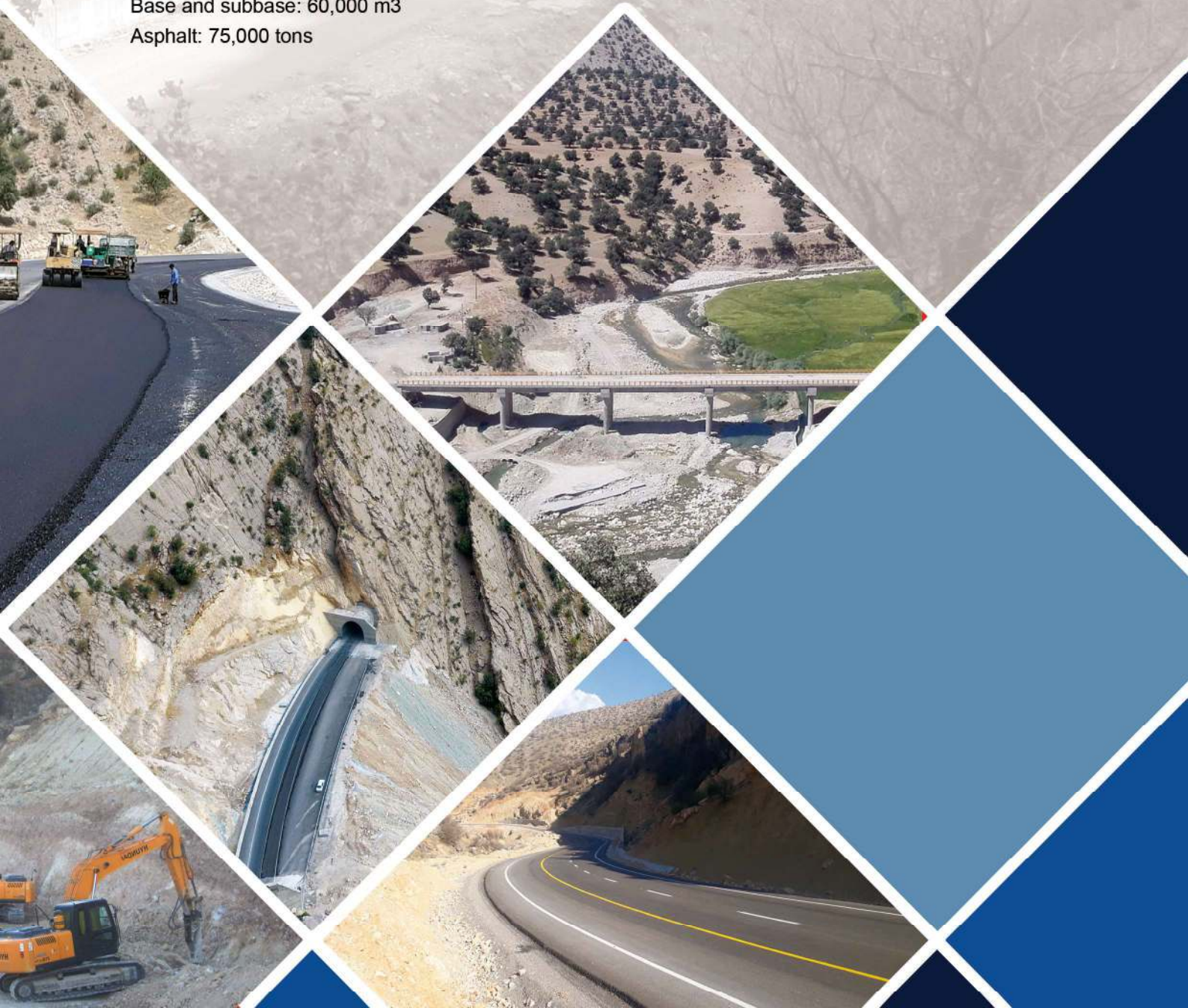
Embankment: 50,000 m³

Concrete placement: 24,000 m³

Steelworks: 700 tons

Base and subbase: 60,000 m³

Asphalt: 75,000 tons



Road Construction



Subject : Project for construction of the first and second parts of Ghazvin-Alamout-Tonekabon main road for 40 km

Place of construction:

Ghazvin Province

Employer : Ministry of Roads and Urban Development - Construction and Development of Transportation Infrastructures Company

Consultant :

Behin Taraddod Pars Consultant Engineers





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Project construction goal:

Traffic in the west, northwest and central provinces of the nation is distributed to the north cities of the nation by construction of Ghazvin-Alamout-Tonekabon road. In addition to traffic distribution, it will result in a considerable decrease in fuel consumption time. Ghazvin-Mazandaran distance will be shortened by 180 km upon operation of this project. Connection of impassable areas including West and East Alamout to a main and standard road is another advantage for construction of this road.

Particulars of the project

Total length of the first and second parts is 40 km of original 1st grade road type, 11 m wide with two lanes

Volumes:

Excavation: 910,000 m³

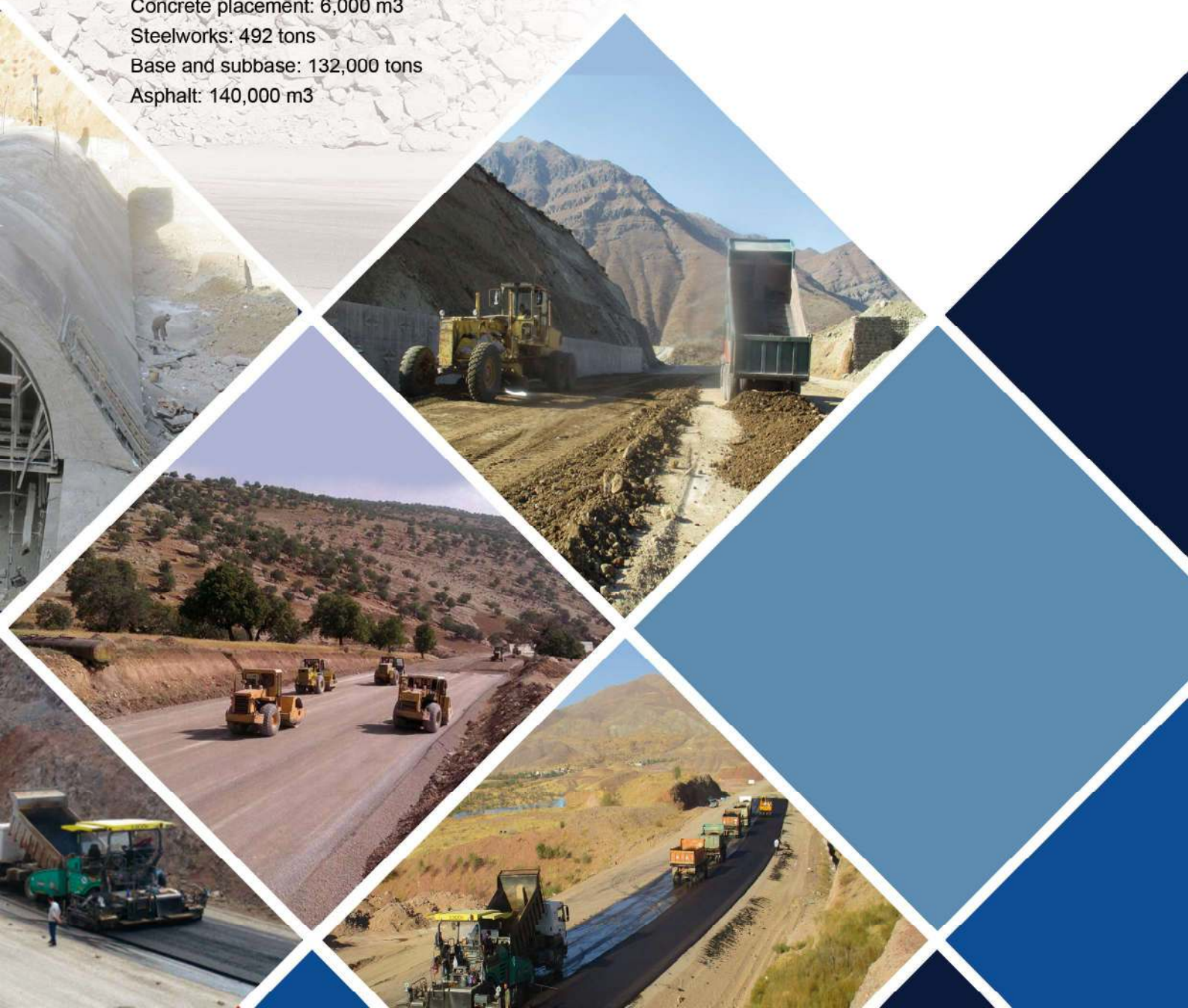
Embankment: 340,000 m³

Concrete placement: 6,000 m³

Steelworks: 492 tons

Base and subbase: 132,000 tons

Asphalt: 140,000 m³



Road Construction



Subject :

Project for improving the first part of Takab-Dandi road to a length of 25 km

Place of construction:

West Azarbaijan and Zanzan provinces

Employer : Ministry of Roads and Urban

Development - Construction and Development of Transportation Infrastructures Company

Consultant :

Tarh-e No Andishan Consultant Engineers



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Project construction goal:

The project of Zanjan-Dandi-Takab road to a length of 75 km is commonly constructed from Takab County by West Azarbaijan and Zanjan provinces. The first part of this road to a length of 25 km is under construction by this company. By construction of this road, not only Takab and Shahindezh counties will have a suitable access road, but also the distance from Takab to Tehran is reduced to 5 hours. Moreover, by construction and improvement of the access road in Takab-Dandi-Zanjan road, it changes to a 1st grade main road, travel time is reduced for half an hour and total distance of Takab County to Dandi district in Zanjan Province includes a road width of 11.60 m with two lanes

Volumes:

Excavation: 680,000 m³

Embankment: 260,000 m³

Asphalt: 80,000 tons

Base and subbase: 113,000 m³

Concrete placement: 20,000 m³

Steelworks: 1,600 tons

Framework: 47,000 m²



Road Construction



Subject :

Construction of the second part of the second lane of Yazd-Bafgh Highway

Place of construction:

Place of construction: Yazd to Bafgh, Yazd Province

Employer :

Yazd Province Department General of Roads and Urban Development

Consultant :

Tarh Afarinan Pars Consultant Engineers





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Particulars of the Project

Construction of the second part of Yazd-Bafgh Lane to a length of 30 km, 5 bridges and 125 culverts

Volumes:

Excavation: 650,000 m³

Embankment: 28,000 m³

Steelworks: 150 tons

Base and subbase: 385,000 m³

Asphalt: 200,000 tons



Road Construction



Subject :

Construction of the third part of Mehr-Lamard Highway

Place of construction:

Lamard County-Mehr-Parsian Refinery Road, Fars Province

Employer :

Iran Gas Engineering and Development Company

Consultant :

Haraz Rah Consultant Engineers - Tarh-e No Andishan Consultant Engineers





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Particulars of the Project

Construction and widening operations of Mehr-Lamard road, about 40 km in two lanes, include construction of 105 culverts and technical buildings, construction of a large bridge for the junction on the opposite of Parsian Refinery

:Volumes

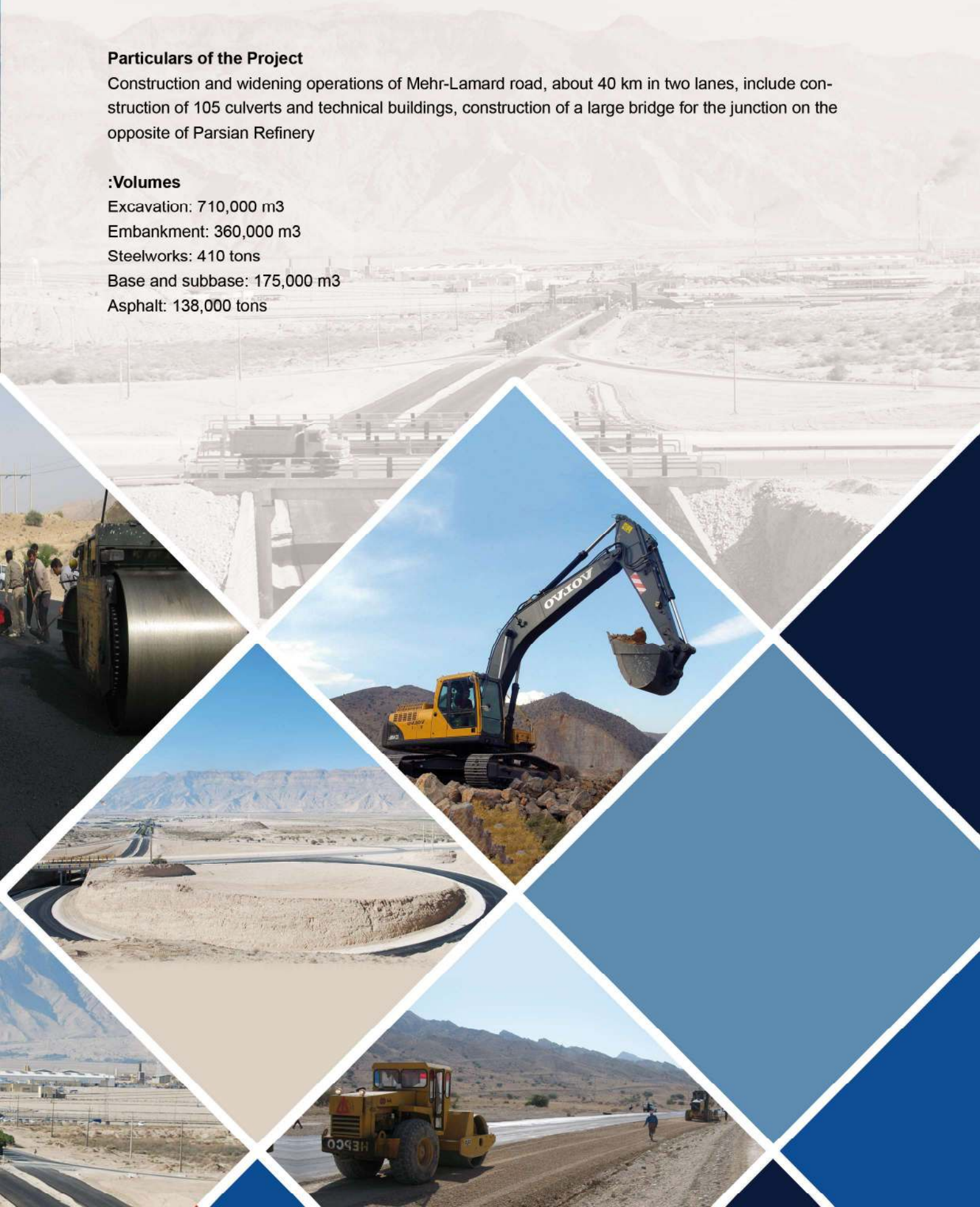
Excavation: 710,000 m³

Embankment: 360,000 m³

Steelworks: 410 tons

Base and subbase: 175,000 m³

Asphalt: 138,000 tons



Road Construction



Subject : Construction operations for 8 lanes
and completion of Varamin-Gharchak-RAY Road

Place of construction:
Varamin-RAY Road, Tehran Province

Employer :
Tehran Province Road and Transportation Department General

Consultant :
Pasar Consultant Engineers





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Particulars of the Project

Operations for improvement, widening and construction o RAY-Gharchak-Varamin road, 28 km long, with about 100 culverts and 4 bridges

Volumes:

Excavation: 1,000,000 m³

Embankment: 600,000 m³

Steelworks: 3,120 tons

Base and subbase: 165,000 m³

Asphalt: 377,000 tons



Road Construction



Subject :

Construction of Mamlou Dam Substitute Road

Place of construction:

Tehran Province

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Omran Iran Consultant Engineers





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Particulars of the Project

Modification and diversion of Shahid Babaei Expressway for about 8 km including construction of going and returning routes, construction of a tunnel with an opening of about 10 m and a length of 980 m, construction of 2 bridges and 48 culverts

Volumes:

Excavation: 1,750,000 m³

Embankment: 330,000 m³

Concrete placement: 12,000 m³

Steelworks: 1,100 tons

Base and subbase: 70,000 m³

Asphalt: 25,000 tons



Road Construction



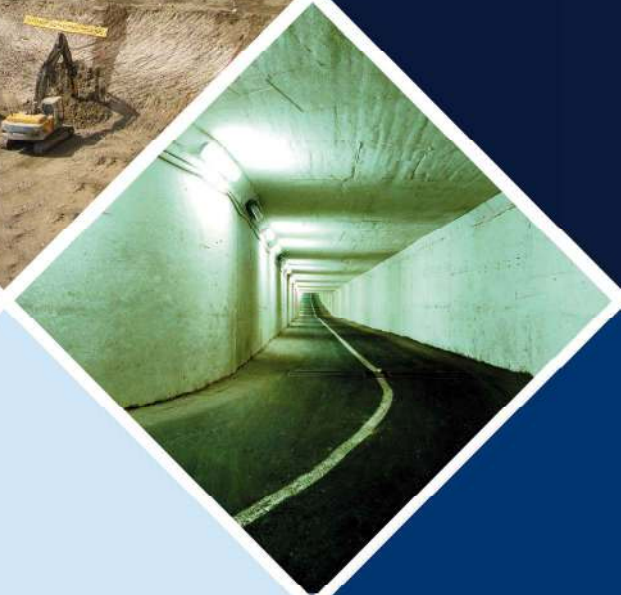


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Some of the completed road projects are as follows:

- Construction of Shahid Babaee Expressway in Tehran Province
- Widening and improvement of Jajroud-Pardis-Rudehen in Tehran Province
- Widening and improvement of Karaj Special Road and Pars Khodro Company underpass
- Construction of Bazyaft Overpass in Tehran Province
- Construction of a part of Shahid Sayad Shirazi Expressway in Tehran North
- Design and construction of retaining wall and corresponding ramps in Imam Ali Expressway

In addition to the aforesaid projects, construction of plants for mass production of sand and gravel as well as asphalt and concrete with a high quality near Tehran has increased the relative advantage and qualification of the company among road constructing competitors in the region.



Bridge Construction





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Since the company is ranked first in the field of roads, construction of projects such as expressways, bridges and heavy structures were followed by significant achievements and attainment of successful record in realization of the said projects for the company



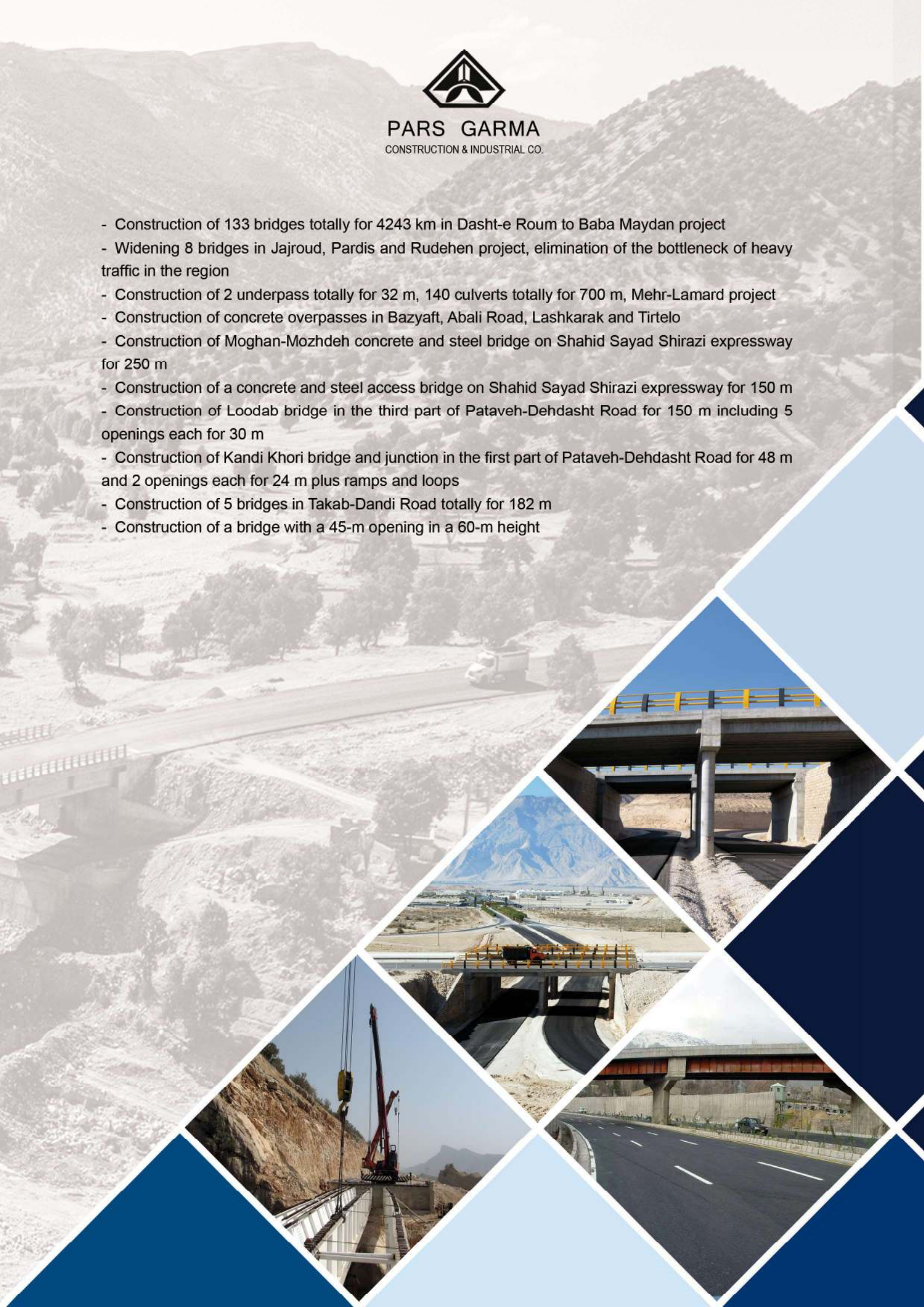
Bridge Construction





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- Construction of 133 bridges totally for 4243 km in Dasht-e Roum to Baba Maydan project
- Widening 8 bridges in Jajroud, Pardis and Rudehen project, elimination of the bottleneck of heavy traffic in the region
- Construction of 2 underpass totally for 32 m, 140 culverts totally for 700 m, Mehr-Lamard project
- Construction of concrete overpasses in Bazyaft, Abali Road, Lashkarak and Tirtelo
- Construction of Moghan-Mozhdeh concrete and steel bridge on Shahid Sayad Shirazi expressway for 250 m
- Construction of a concrete and steel access bridge on Shahid Sayad Shirazi expressway for 150 m
- Construction of Loodab bridge in the third part of Pataveh-Dehdasht Road for 150 m including 5 openings each for 30 m
- Construction of Kandi Khori bridge and junction in the first part of Pataveh-Dehdasht Road for 48 m and 2 openings each for 24 m plus ramps and loops
- Construction of 5 bridges in Takab-Dandi Road totally for 182 m
- Construction of a bridge with a 45-m opening in a 60-m height



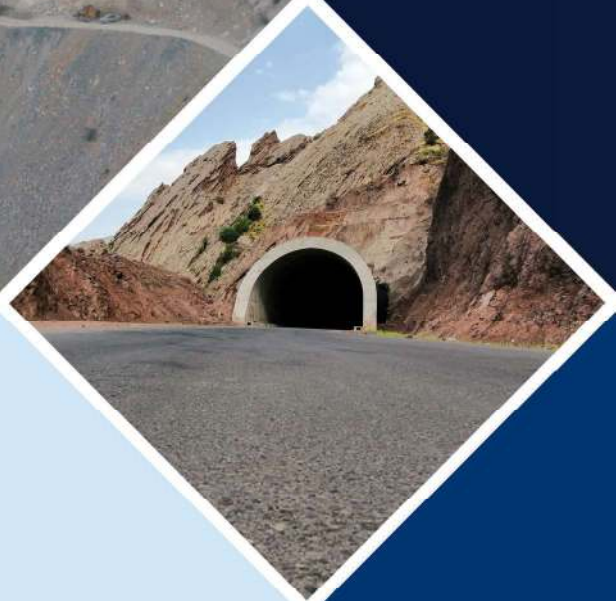
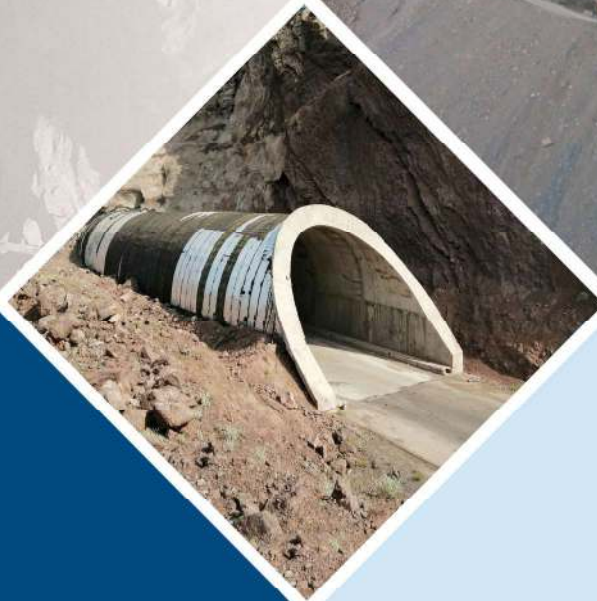
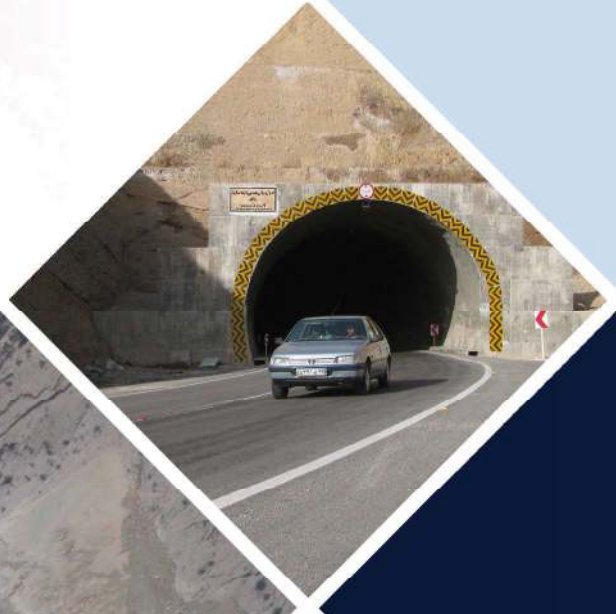
Bridge Construction





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

The company enjoys extensive records and experiences in this field so that it has been awarded a 1st rank certificate by the Plan and Budget Organization in this regard. In addition to the completed projects, the company has currently several projects under construction.



Drilling and Tunnels



Subject :

Ghazvin-Alamout-Tonekabon Road and construction of two galleries

Place of construction:

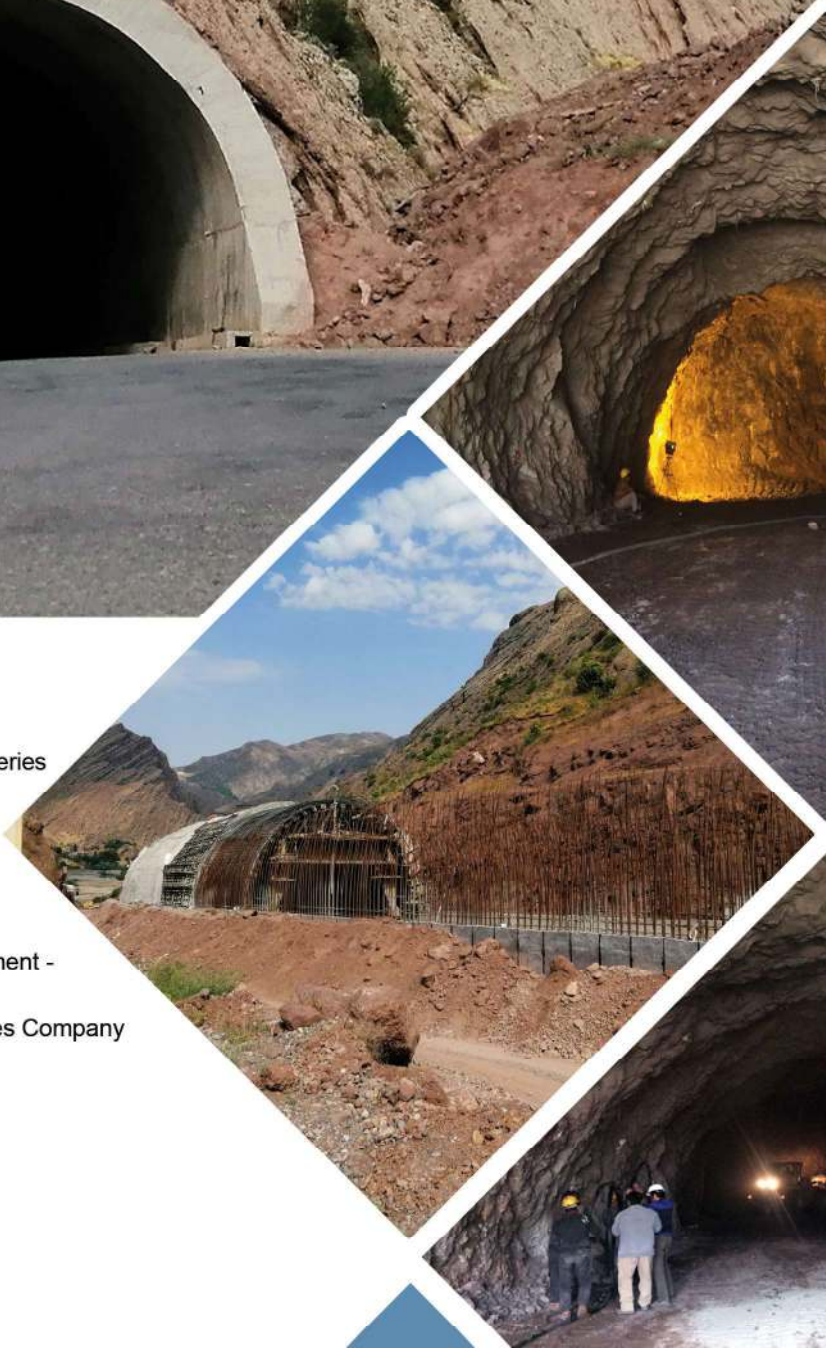
Ghazvin Province

Employer : Ministry of Roads and Urban Development -

Construction and Development of Transportation Infrastructures Company

Consultant :

Barayand Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Project Construction Goal

This road is one of the linking corridors to connect the south part of Alborz mountains to its north part and its completion will result in the prosperity of Alamout region with several historical and natural attractions. This road is 148 m long and it links Ghazvin and Mazandaran provinces. 94 km of this road is located in Ghazvin Province. construction of this road will facilitate in the traffic of automobiles from central and south provinces to the north of the nation.

Particulars of the Project

This project is located in Ghazvin Province in the 60th km of Ghazvin County.

Tunnel length: 670 m

Roadway width of the tunnel: 7.30 m

Width of the shoulders on each side: 1 m plus 2 galleries to a length of 150 m

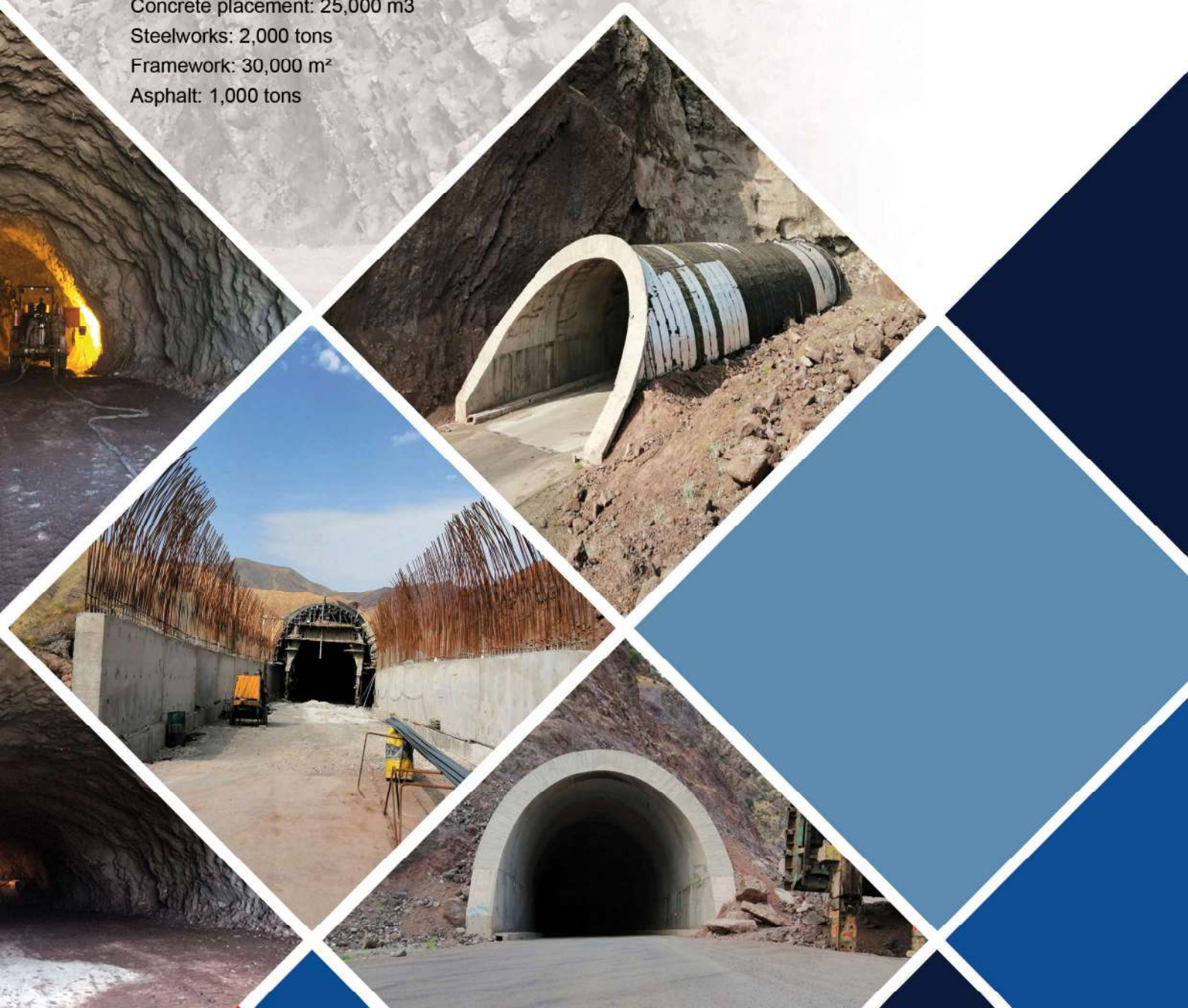
Tunnel drilling volume: 68,000 m³

Concrete placement: 25,000 m³

Steelworks: 2,000 tons

Framework: 30,000 m²

Asphalt: 1,000 tons



Drilling and Tunnels



Subject : Garmizeh Tunnel Construction Project located
at Ardal-Duplan Road, 1,660 m

Place of construction:
Ardal County, Chahar Mahal and Bakhtiari Province

Employer : Ministry of Roads and Urban Development, Departme
nt General of Roads and Urban Development of Chahar Mahal and Bakhtiari Provinc

Consultant :
Rahab Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Project Construction Goals

By development of roads in the province including construction of Ardal-Duplan Road, the accident prone Bajgiran bottleneck in Shahre Kord-Khuzestan Road will be eliminated. Operation of this road is quite necessary due to the heavy traffic of Shahre Kord-Lordegan-Khuzestan link road.

Construction of the said link road will result in a 15-km decrease in the distance between Chahar Mahal and Bakhtiari and Khuzestan provinces. By construction of the said road, over 30 km of Esfahan-Shahre Kord-Eizeh will decrease. By construction of Garmizeh Tunnel, Duplan and Bajgiran impassable bottlenecks which are among the most accident prone parts of the said road will be eliminated.

Total length of tunnel: 1,660 m,

Useful width of tunnel: 9.30 m

No. of lanes: 2

Volumes:

Volume of excavation and embankment: 102,000 m³

Tunnel excavation: 153,000 m³

Concrete lining: 18,000 m³



Drilling and Tunnels



Subject : Construction of the 3rd part of Borojen-Lordegan Road
and one tunnel with a length of 1,340 m

Place of construction:
Borojen County, Chahar Mahal and Bakhtiari Province

Employer : Ministry of Roads and Urban Development - Construction
and Development of Transportation Infrastructures Company

Consultant :
Sahand Taransheh Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Project Construction Goal

Chahar Mahal and Bakhtiari Province is one of the most important economic superhighways of the nation due to its geographical position and its location in the transit link road of central provinces to south and southwest ports of the nation. Borojen-Lordegan Road is one of the busiest roads of Chahar Mahal and Bakhtiari. Operations of Shahre Kord-Borojen-Lordegan Highway are being performed quickly to increase traffic safety and to reduce travel time.

Operation of this road is important and necessary due to high traffic load of Shahre Kord-Lordegan-Khuzestan link road.

Total length of the road: About 4470 m

Tunnel construction length: 1340 m

Useful width of the tunnel: 9.30 m

Number of lanes: 2 lanes

Construction of incoming and outgoing galleries of tunnel and continued construction of expressway at the tunnel entry and exit to a length of 3125 m

Volumes:

Volume of excavation and embankment: 1,355,000 m³

Tunnel excavation: 127,000 m³

Concrete lining: 13,000 m³



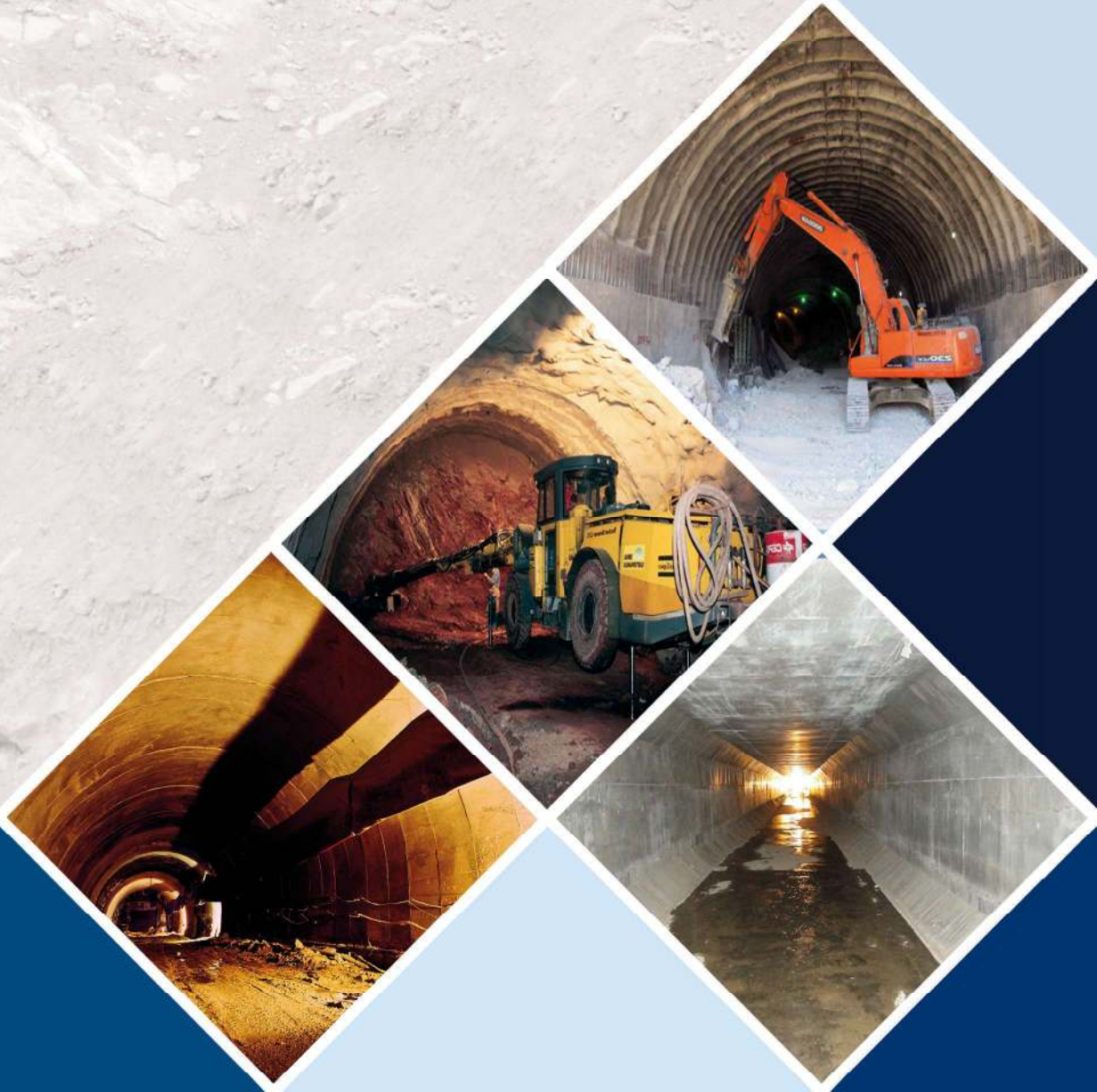
Drilling and Tunnels





PARS GARMA
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- Construction of agricultural irrigation tunnel to a length of 354 m and a diameter of 5.3 m in Sivand Reservoir Dam and injection in the alluvial layers to a depth of 160 m
- Construction of 8 tunnels to a length of 3888 m, Dashte Roum to Baba Maydan Road Project
- Construction of Salman Farsi Dam Water Diversion Tunnel to a length of 280 m and a diameter of 12 m plus contact injections and construction of diversion tunnel hydromechanical system
- Construction of Mamlou Dam substitute road tunnel in Shahid Babae Expressway to a length of 980 m
- Construction of 5 tunnels to a length of 2830 m, Project of Pataveh to Dehdasht main road



Heavy Steel and Concrete Structures





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Project Construction Goal

This road is one of the linking corridors to connect the south part of Alborz mountains to its north part and its completion will result in the prosperity of Alamout region with several historical and natural attractions. This road is 148 m long and it links Ghazvin and Mazandaran provinces. 94 km of this road is located in Ghazvin Province. construction of this road will facilitate in the traffic of automobiles from central and south provinces to the north of the nation.

Particulars of the Project

This project is located in Ghazvin Province in the 60th km of Ghazvin County.

Tunnel length: 670 m

Roadway width of the tunnel: 7.30 m

Width of the shoulders on each side: 1 m plus 2 galleries to a length of 150 m

Tunnel drilling volume: 68,000 m³

Concrete placement: 25,000 m³

Steelworks: 2,000 tons

Framework: 30,000 m²

Asphalt: 1,000 tons



Heavy Steel and Concrete Structures



Subject : Project of Behjat Abad Commercial and Office Complex and Vertical Parking

Place of construction: Karimkhan Zand and Hafez Intersection, Tehran City

Employer : Tehran Civil Engineering Organization, Tehran Municipality

Consultant : Atava Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Particulars of the Project

Construction of a commercial and office complex and a vertical parking with a concrete structure and an outer view that has increased the beauty of its surrounding environment.

Measurement of the building is 23000 m² in the 10-floor parking area. The office section has totally 6 floors plus two commercial floors.

Volumes:

Foundation and excavation: 8000 m³

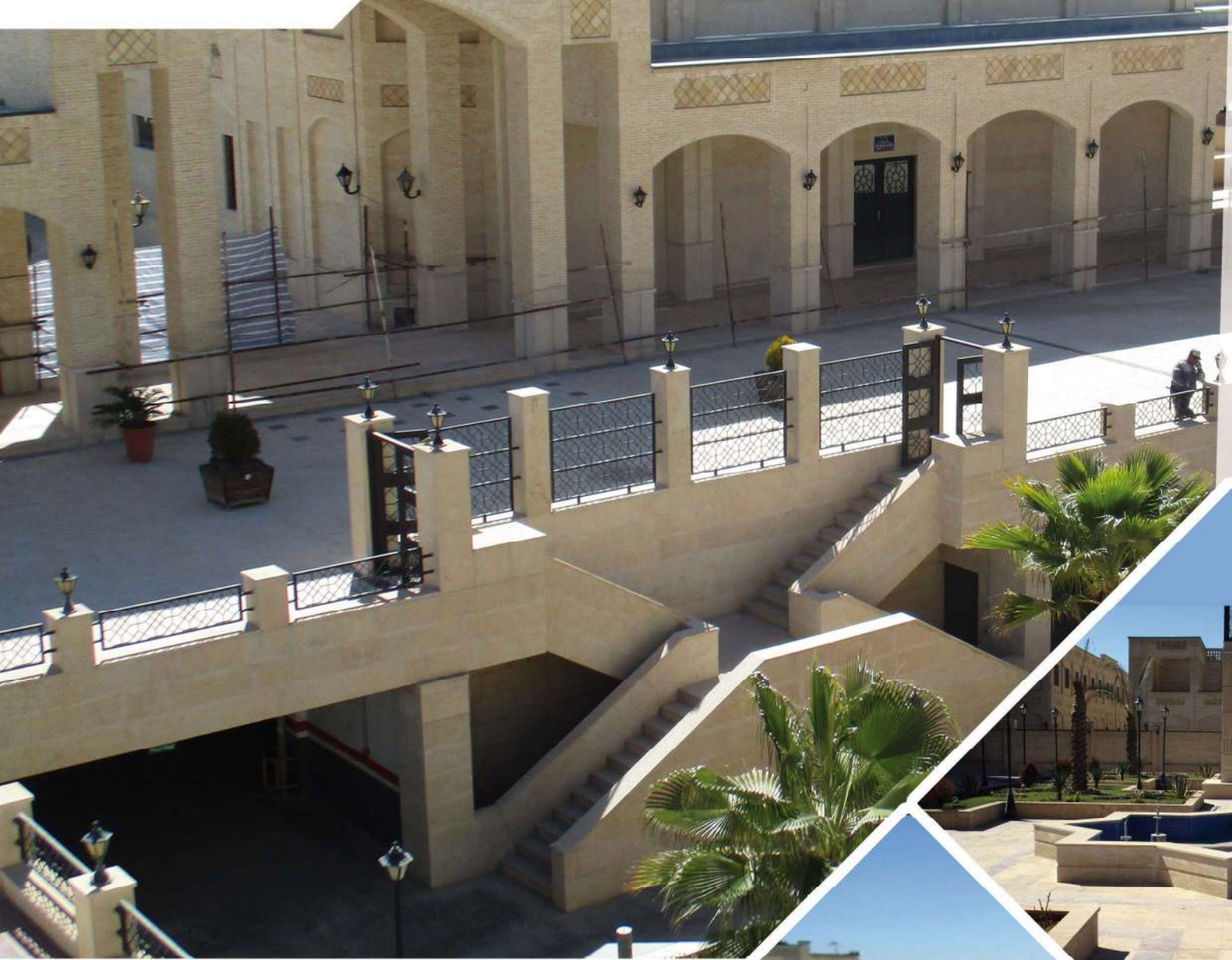
Framework: 27000 m²

Concrete placement: 12000 m³

Steelworks: 1300 tons



Buildings and Facilities



Subject :

Construction of Zone 3 of Baynolharamain (Shah Cheragh) Project in Shiraz

Place of construction:

Shiraz City, Fars Province

Employer :

Samt-o-Souy-e- Tosse-eh Iranian Company

Consultant :

Sanat va Abadani Pars Consultant Engineers





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CONSTRUCTION & INDUSTRIAL CO.

Particulars of the Project

Place of project construction is in Shiraz City, Fars Province. The project is located between Shah Cheragh and Astaneh. Covering an area over 52,000 m², Baynolharamain Commercial Complex Project (Zone 3) is constructed in three floors, namely basement, ground floor and first floor to establish .recreational, educational, cultural and commercial spaces

:Some of the important spaces of this project are as follows

Hotel and restaurant: 4900 m²

Parking area and storage: 16.250 m²

Sport hall, swimming pool and sauna: 1400 m²

Commercial units: 5200 m²

Office units: 3500 m²

Amusement Park: 1575 m²

Volumes

Procurement and installation of 17 air conditioners

Steelworks: 5-6 tons

Concrete placement: 13000 m³

Framework: 4000 m²

Outside furnish: 22500 m²



Buildings and Facilities



Subject :

Construction of infrastructures of هسته پیشران in free trade zone of Imam Khomeini

Place of construction:

Imam Khomeini Airport, Tehran Province

Employer :

Imam Khomeini Airport Town Company

Consultant :

Rahab Consultant Engineers



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Particulars of the Project

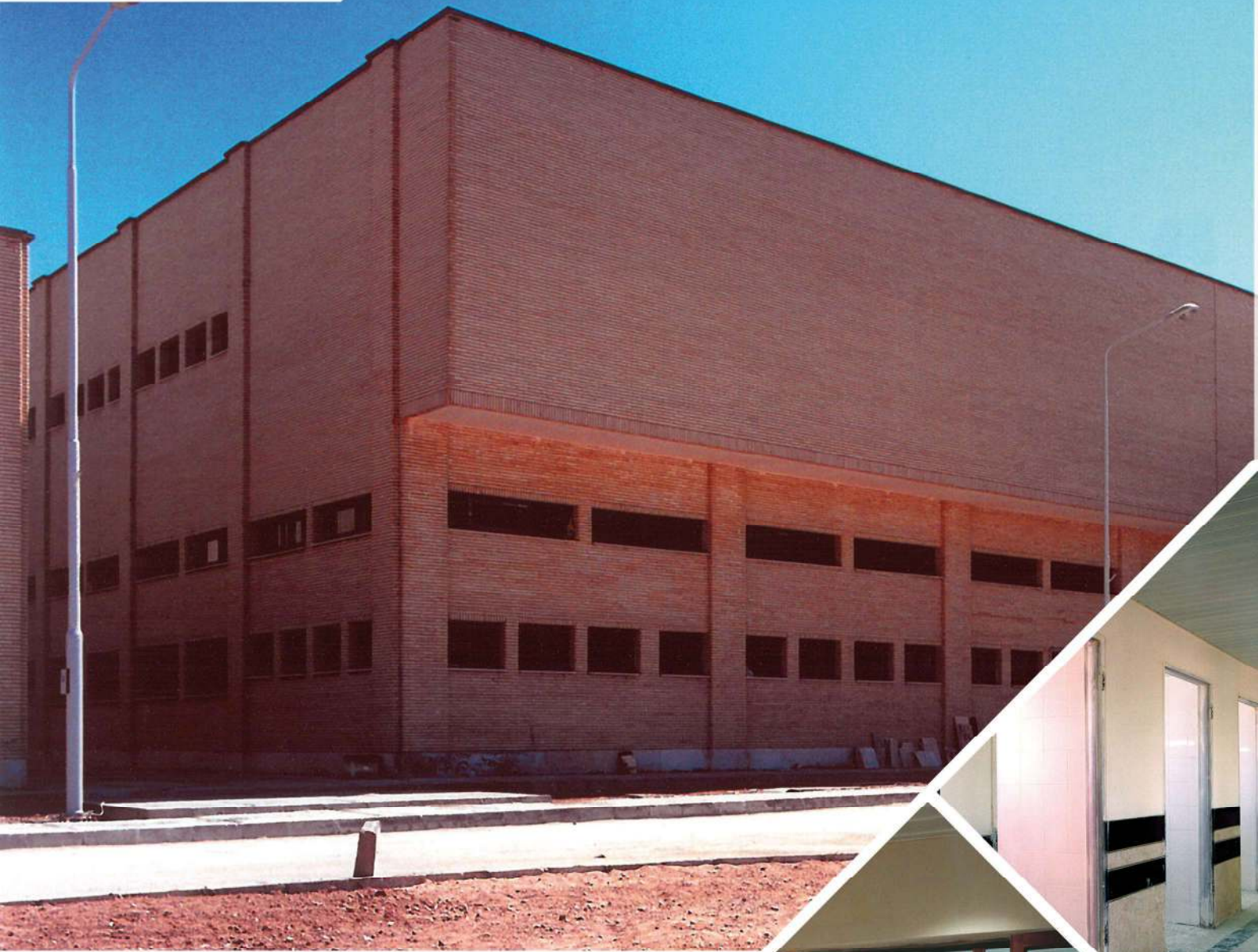
- Construction of technical buildings in the project area such as construction of culverts in the route of channels, construction of public passageways to a length of 15 km such as sidewalk, surface waters drainage network
- Construction of ducts to a length of about 9 km plus control building and the respective facilities, construction of distribution networks of freshwater, firefighting water and irrigation
- Power grid implementation
- FAVA network implementation
- Construction of wastewater collection network

Work volumes

- Earthworks including excavation and leveling: About 2.5 million cubic meters
- Subbase and base pavement operations: About 1 million cubic meters
- Construction of distribution networks for freshwater, firefighting water and irrigation: About 65,000 m
- Power grid implementation: About 131,000 m of low and medium voltage cables
- Fava network implementation: About 270,000 m of optical fiber
- Construction of 40 compact substations
- Asphalt pavement: 155,000 tons
- Concrete curb: About 130,000 m
- Concrete flooring: About 113,000 m²
- Concrete placement: About 71,000 m³



Buildings and Facilities



Subject :

Construction of Shahreza 96-bed Hospital (Amir Al-Momenin)

Place of construction:

Shahreza, Esfahan Province

Employer :

Social Security Organization

Consultant :

Iran Housing Investment Company





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Particulars of the Project

Construction operations of building works and mechanical and electrical facilities for Amir Al-Momenin 96-bed Hospital of Social Security Organization which is under operation. The building has two floors measuring 27000 m² and it has a concrete structure.

Procurement and installation of chillers, power diesel generator, waste incinerator for the central building, construction of treatment plant and wastewater of hospital, landscaping for about 10,000 m²



Buildings and Facilities



Subject : Design, construction and development of treatment department of Shahid Chamran Hospital

Place of construction:
Nobonyad Sq., Tehran City

Employer :
Construction and Industrial Projects Executive Organization

Consultant :
Imen Gostaran Mohit Consultant Engineers





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Particulars of the Project

The project covers a total area of 28,000 m² in 8 floors (-1 floor and 7 floors above the ground) with concrete structure including:

- 1- Study and design of architecture, structure, mechanical and electrical facilities for hospital development plan
- 2- Construction operations of vertical parking and engine room of hospital with a total area of 11,000 m²
- 3- Construction operations of treatment and office floors of the hospital with a total area of 16,000 m²

Volumes:

Foundation and excavation: 40000 m³

Concrete placement: 14000 m³

Framework: 37000 m²

Steelworks: 1700 tons



Buildings and Facilities

مجمع فرهنگی ورزشی خلیج فارس



Subject :

Construction of Khalij-e Fars Sport and Cultural Complex

Place of construction:

Tehran City

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Omran Iran Consultant Engineers



PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Particulars of the Project

The project covers a total area of 7100 m² including:

- 1- Construction of a swimming pool with an area of about 1700 m² with steel structure and space roof including construction of buildings, all mechanical and electrical facilities for national and international competitions
- 2- Construction of cultural building, amphitheater, office and sport offices with a total area of about 4000 m² in four floors with a space roof including construction of buildings, mechanical and electrical installations, landscaping, engine room
- 3- Construction of restaurant and sport hall with an area of about 1200 m² in 3 floors with roof garden and composite ceiling including construction of buildings, mechanical and electrical installations, landscaping

Volumes

Foundation and excavation: 9000 m³

Concrete placement: 3000 m³

Framework: 7600 m²

Steelworks: 1200 tons



Buildings and Facilities



Subject :

Construction of an office complex

Place of construction:

Tehran City

Employer :

Construction and Industrial projects Executive Organization

Consultant :

Omran Iran Consultant Engineers





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Particulars of the Project

- 1- Construction of Vali-e Asr 1st and 2nd buildings with steel structures, an approximate area of 21,000 m² and office and service utilization in 2 and 8 floors, respectively
 - 2- Construction of an office building with an area of 8,000 m² in 5 floors
 - 3- Operations for landscaping and construction of engine rooms for the buildings
- Total area of project buildings is about 29,000 m²

Volumes

Foundation and excavation: 34000 m³

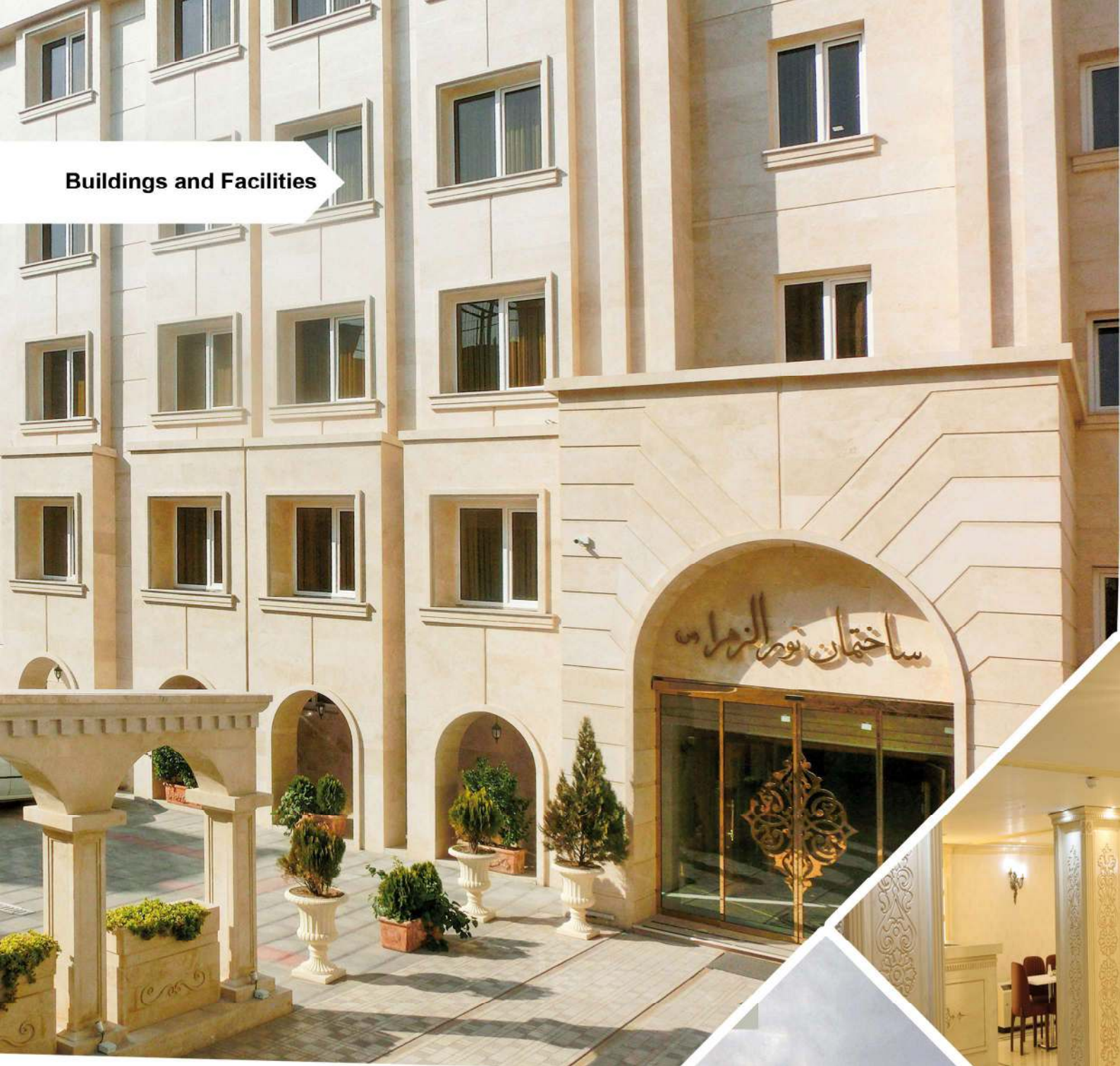
Concrete placement: 6000 m³

Framework: 5000 m²

Steelworks: 1810 tons



Buildings and Facilities



Subject :

Construction of Apartment Hotel and Nour Al-Zahra Hotel

Place of construction:

Mashhad City, Khorasan Razavi Province

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Omran Iran Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Particulars of the Project

- 1- Construction of the building of Imam Khomeini Basirat Center in 5 floors with steel structure including construction operations of buildings, mechanical and electrical facilities
- 2- Construction of Tous Darya Apartment Hotel in 5 floors with steel structure including construction operations of buildings, mechanical and electrical installations
- 3- Development and reconstruction of Nour Al-Zahra Hotel measuring 2400 m²
- 4- Operations for landscaping and construction of engine room for the buildings. Total measurement of the project buildings is about 11,000 m²

Volumes

- Foundation and excavation: 6100 m³
Concrete placement: 3500 m³
Framework: 3700 m²
Steelworks: 954 tons



Buildings and Facilities



Subject :

Construction of Yas Office and Commercial Complex

Place of construction:

Tehran City

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Ravagh Chahar Bagh Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Project construction goal

Yas Office and Commercial Project is located in Shahid Langari St., Nobonyad Square. It has three parking areas (in the basement) and 6 floors over the ground measuring 7100 m².

Some of the important activities carried out in the project include construction operations of buildings and architecture, electrical and mechanical facilities, landscaping, etc.

Volumes

Foundation and excavation: 13500 m³

Concrete placement: 4500 m³

Framework: 8500 m²

Steelworks: 160 tons

Outside furnish: 4500 m²



Buildings and Facilities



Subject :

Construction of Mozhdeh Site at Malek Ashtar University of Technology

Place of construction:

Shahid Babaee Expressway, Tehran City

Employer :

Malek Ashtar University of Technology

Consultant :

Omran Iran Consultant Engineers





CONSTRUCTION & INDUSTRIAL CO.

The project includes:

- 1- Construction of a 5-floor office building with concrete structure consisting of operations for building construction, mechanical and electrical installations and landscaping
- 2- Construction of education and laboratory buildings and scientific workshops in 4 floors with steel structures consisting of operations for construction of buildings, mechanical and electrical installations and landscaping
- 3- Construction of a sport hall with the corresponding facilities

Particulars of the Project

Project location is in Tehran City, Tehran Province and it is constructed by this company as Development Project of Malek Ashtar University of Technology.

Total area of the project under construction is about 31,000 m².

Foundation and excavation: 36000 m³

Light and heavy steelworks: 1350 tons

Framework: 8000 m²

Concrete placement: 9000 m³



Buildings and Facilities



Subject :

Construction of an office building

Place of construction:

Esfahan City

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Imen Gostaran Mohit Consultant Engineers





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Particulars of the Project

Total number of floors: 13 floors including 8 floors on the ground floor and 4 floors under the ground floor

Area of each floor: About 900 m²

Total area: About 12,000 m²

- 1- Completion of construction operations for buildings and brickwork
- 2- Finishing operations of project including limewash, plasterwork, tiling, stonework, etc.
- 3- Implementation of mechanical and electrical facilities of the project
- 4- Operations for installation and commissioning of the elevators, chillers, ventilators, etc.
- 5- Completion of engine room, implementation of floorings and brick view

Volumes:

Elevator: 6 sets (for 13 persons and 16 persons)

Aluminum windows: 863 m²

Fan coils: 300 sets

Ventilators: 2 sets(cfm 5200)

Generators: 2 sets (250 kw)

CCTVs: 149 sets

Boilers: 5 sets

Chillers: 3 sets



Industrial Projects, Facilities and Equipment



Subject : Design and construction the project for industrial development of phases 2 & 3, Poulad Pouyesh Company

Place of construction:
Parand Industrial Estate, Tehran Province

Employer :
Poulad Pouyesh Company

Consultant :
Omran Iran Consultant Engineers



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Particulars of the Project

- 1- Study and design of first and second stages, engineering services during construction
- 2- Construction of an industrial shed with an approximate area of 8700 m² and a weight of 800 tons
- 3- Construction of a 4-floor office building measuring 1600 m²
- 4- Construction of roofs for the sheds covering an area of 1700 m²
- 5- Construction operations for landscaping, extra buildings, infrastructural facilities, covering an approximate area of 3500 m²

Volumes

- Foundation and excavation: 8500 m³
Concrete placement: 5200 m³
Steelworks: 1000 tons
Framework: 3500 m²



Buildings and Facilities



Subject :

Construction of Yas Office and Commercial Complex

Place of construction:

Tehran City

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Ravagh Chahar Bagh Consultant Engineers



PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Project construction goal

Yas Office and Commercial Project is located in Shahid Langari St., Nobonyad Square. It has three parking areas (in the basement) and 6 floors over the ground measuring 7100 m².

Some of the important activities carried out in the project include construction operations of buildings and architecture, electrical and mechanical facilities, landscaping, etc.

Volumes

Foundation and excavation: 13500 m³

Concrete placement: 4500 m³

Framework: 8500 m²

Steelworks: 160 tons

Outside furnish: 4500 m²



Industrial Projects, Facilities and Equipment



Subject :

Construction of an industrial shed

Place of construction:

Sistan and Baluchestan Province

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Aitsen Consultant Engineers



PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Particulars of the project

Construction of power plant building, performing all operations for installation of electrical and mechanical facilities of the building

Installation and commissioning of all equipment and facilities of the power plant

Construction operations for landscaping, construction of extra buildings, operation and delivery of the project

Volumes:

Foundation, excavation and embankment: 12,000 m³

Framework: 15,000 m³

Reinforcement: 230 tons Concrete placement: 8,100 m³

Wire and cable: 36,000 m long

Generator: 4 sets (1000 KVA) UPS (15 KVA)

Transformer: 2 sets (20000 V)

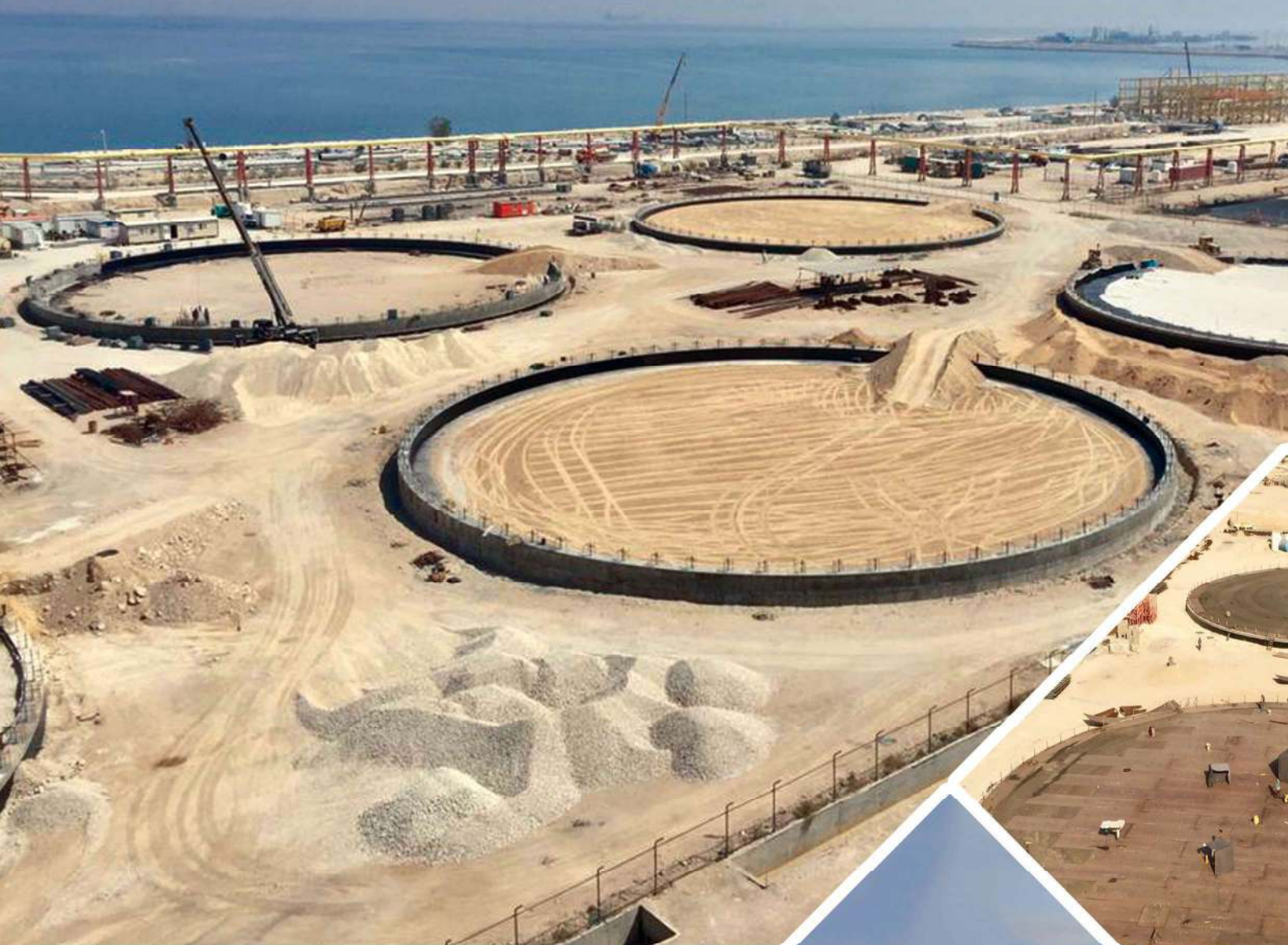
Ventilator: 2 sets (19900, 26500 CFM, 95 tons and 82 tons)

Air conditioning: 2 sets (25400 and 28600 BTU)

Chiller: 5 sets (90 tons and 104 tons, air conditioning package, 80 tons)



Oil and Gas Industrial Projects



Subject :

Civil operations of tanks, procurement of methanol equipment MEG

Place of construction:

Asaluyeh Zone, Bushehr Province

Employer :

Makhazen Sabz Petrochemical Company of Asaluyeh

Consultant :

Executive of Makhazen Sabz Asaluyeh Project





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CONSTRUCTION & INDUSTRIAL CO.

Particulars of the Project

- Construction of 9 methanol and glycol tanks
- Construction of a concrete PIPE TRENCH channel totally 1460 m long, 25 m wide and 3 m high
- Construction of 7 culverts on the channels
- Construction operations for landscaping and access roads to the site of the complex

Volumes:

Excavation: 39000 m³

Embankment: 20000 m³

Concrete placement: 20300 m³

Steelworks: 1830 tons

Frameworks: 50000 m²



Construction of Residential Towns, Mass Housing Development





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Enjoying the highest rank in the field of buildings and mass construction has led to assignment of a broad range of activities to the company in relation to construction of towns and mass housing construction projects to the company, completed and delivered one after another



Construction of Residential Towns, Mass Housing Development





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Residential Towns and Mass Construction in Tehran

- **Kowsar Residential Building Complex Project**

It is located in district 1 of Tehran and includes 7 blocks each with 16 floors, a superstructure over 70,000 m² with all installation, mechanical, electrical and landscaping operations which have been completed and delivered.

Procurement and installation of 45 elevators and lifters in Kowsar Residential Building Complex Project

- **Projects of 6,000 residential units for civil servants:**

Located in the west, north and south of Tehran, including 10 blocks each with 14 floors. The project was delivered and put into operation with all extra facilities and wastewater treatment plant.

- **Saba A Residential Building Complex Project**

Located in district 22 of Tehran including 132 residential units in 20 floors, a superstructure of 28000 m² which is under operation after completion of installation and mechanical operations.



Construction of Residential Towns, Mass Housing Development





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Residential Towns and Mass Construction in Yazd Province

33, 170, 288 and 400-unit residential projects were constructed and operated in different parts of Yazd City with superstructures over 70,000 m².



Construction of Residential Towns, Mass Housing Development



Subject :

Construction of 117 residential detached houses and apartment unit

Place of construction:

Sistan and Baluchestan Province

Employer :

Construction and Industrial Projects Executive Organization

Consultant :

Fardano Consultant Engineers





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Particulars of the Project

Construction of 317 detached houses and apartment units with a superstructure of 33000 m² including building works, facilities, substations, 5000-ton concrete water storage tanks and landscaping for 120000 m².

Volumes:

Foundation and excavation: 16000 m³

Concrete placement: 18000 m³

Framework: 38000 m²

Steelworks: 2280 tons



Machinery





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

The wide range of equipment and machinery has assisted the company in due performance of activities. Accurate management for distribution of the said equipment and machinery in the projects has led to prevention from any delay.



Equipment and Machinery





PARS GARMA
CONSTRUCTION & INDUSTRIAL CO.

Equipment and Machinery:

Bulldozers, loaders, rollers, excavators, graders and mini loaders	82 sets
Types of trucks, dump trucks, tractor-trailer trucks and dump trucks	68 sets
Types of cement bunkers, water and fuel tanks, and tar sprayers	31 sets
Types of concrete pumps, truck mixers and shotcrete pumps	45 sets
Types of cranes, lift trucks and tower cranes, tractors and site lifters	29 sets
Types of drilling machinery, jumbo drills, drill wagons, anfo chargers, drilling device	13 sets
Types of equipment such as asphalt plants, crushers, batching plants, generators, compressors	73 sets
Types of light vehicles (pickups, ambulances, sedans, etc.)	102 sets
Total:	443 sets



