General Mechanic

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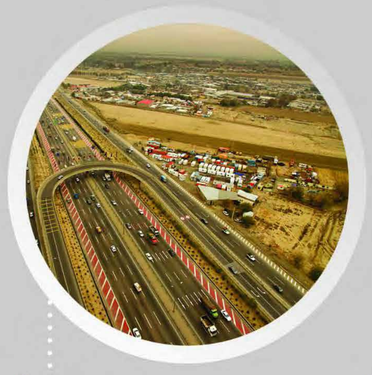
Established in 1954 with registration No. 4320 in Tehran, GENERAL MECHANIC company (GMC) has been in forefront of construction industry in IRAN for the past sixty decades and enjoys two decades of construction activity internationally.
GMC owes its success and uphold in the market through client's trust and satisfaction, continuous staff training, keeping up to date with the lastest technology and above all, giving the highest priority to quality workmanship.
GMC's contracting activities span over a wide range of fields. They include construction of large building complexes, infrastructures, dams, water transmission lines, port, expressways, long span bridges, tunnels and rail road construction on a large scale.
Engagement in various construction sectors throughout the years has enabled GMC to acquire a wide range of machinery, equipment and expert staff.
Supported by solid financial backing and motivated by new technologies and construction methods, GMS management and staff are encouraged to envisage and plan for future horizons.

Scope of certification

contract execution and supervision of engineering services including EPC projects in the fields of:

- Civil construction
- Infrastructures and Buildings
- Highways, Tunnels, Bridges and Interchanges
- Railway construction
- Dam construction
- Airport construction
- Power stations
- Sewerage systems
- Construction of ports, jetties and breakwaters
- Water transmission system including pumping stations and water treatment plants.

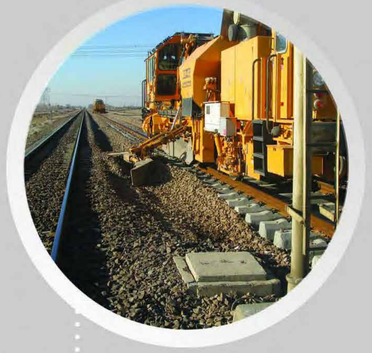
What is ahead of you



4 ROAD
Road and free road
Tunnel
Bridge



22 WATER
Water supply
Mechanized excavation by TBM system
Waste water and water treatment installations



36 RAILWAYS



42 MARINE STRUCTURES



48 INDUSTRIAL BUILDINGS AND STRUCTURES

Road and Freeway

Tehran – Shomal Freeway Rroject (lot 24)
Mazandaran-Islamic Republic of Iran
Commencement year: 2011

Wadi – Muddiq To Tunnel Road
Sharjah-United Arab Emirates
Commencement year: 2003

Gilay To Tunnel Road
Sharjah-United Arab Emirates
Commencement year: 2002

Mountain Road To Al Jais Project
Ras Al Khaimah-United Arab Emirates
Commencement year: 2005

Construction Of Soorab – Kalat Road
Kerachi-Pakistan
Commencement year: 2000

Construction Of Zanjan – Tabriz Freeway
Zanjan-Islamic Republic of Iran
Part 2/A
Commencement year: 2005

Part 2/B
Commencement year: 1999

Construction Bridge Of Khalije-Fars Freeway
Teharn-Islamic Republic of Iran





Wadi-Muddiq To Tunnel Road

Sharjah-United Arab Emirates
Commencement year: 2003



Gilay To Tunnel Road

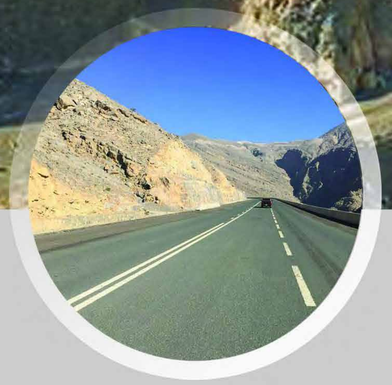
Sharjah-United Arab Emirates
Commencement year: 2002



Tehran – Shomal Freeway Rroject (lot 24)

Mazandaran-Islamic Republic of Iran
Commencement year: 2010

This project extends from city of chaloos to town of Mazandaran in northern Iran having a total length of 27 KM. It involves construction of 3 bridges, 2 tunnels (total length 760 m, diameter ~ 12m
Client: Tehran - Shomal Freeway Co.
Excavation: 246,557 m³
Earth Fill: 456,028 m³









Mountain Road To Al Jais Project

Ras Al Khaimah-United Arab Emirates

Commencement year: 2005

TMountain road project with length of 36 Km including over five million earthworks, 48 culverts, retaining walls, safety barriers, ditch protections, asphalt, road marking, traffic signs...
Earth works: 5.1 million
Barriers: 24 Kg
Box & pipe culverts: 48
Ditch protection: 22 Kg
Channel protection: 2.5 Kg

Tunnel

Alborz Tunnel And Access Road Project

Alborz-Islamic Republic of Iran
Commencement year: 2010

Construction Railway'S Tunnel Of Bafgh – Mashhad

Khorasan-Islamic Republic of Iran
Commencement year: 1997

Construction Of Shably Tunnel Part 2/A Zanjan – Tabriz Freeway

Zanjan-Islamic Republic of Iran
Commencement year: 2012

Difta – Shais Road And Tunnel's Project

Sharjeh-United Arab Emirates
Commencement year: 2004

Shais – Khorfacan Road And Tunnel's Project

Sharjeh-United Arab Emirates
Commencement year: 2011

Ghalajeh Tunnel And Access Road Project

Ilam-Islamic Republic of Iran
Commencement year: 2011

Difta – Shais Road And Tunnel's Project
Sharjeh-United Arab Emirates

Difta – Shais Road And Tunnel's Project

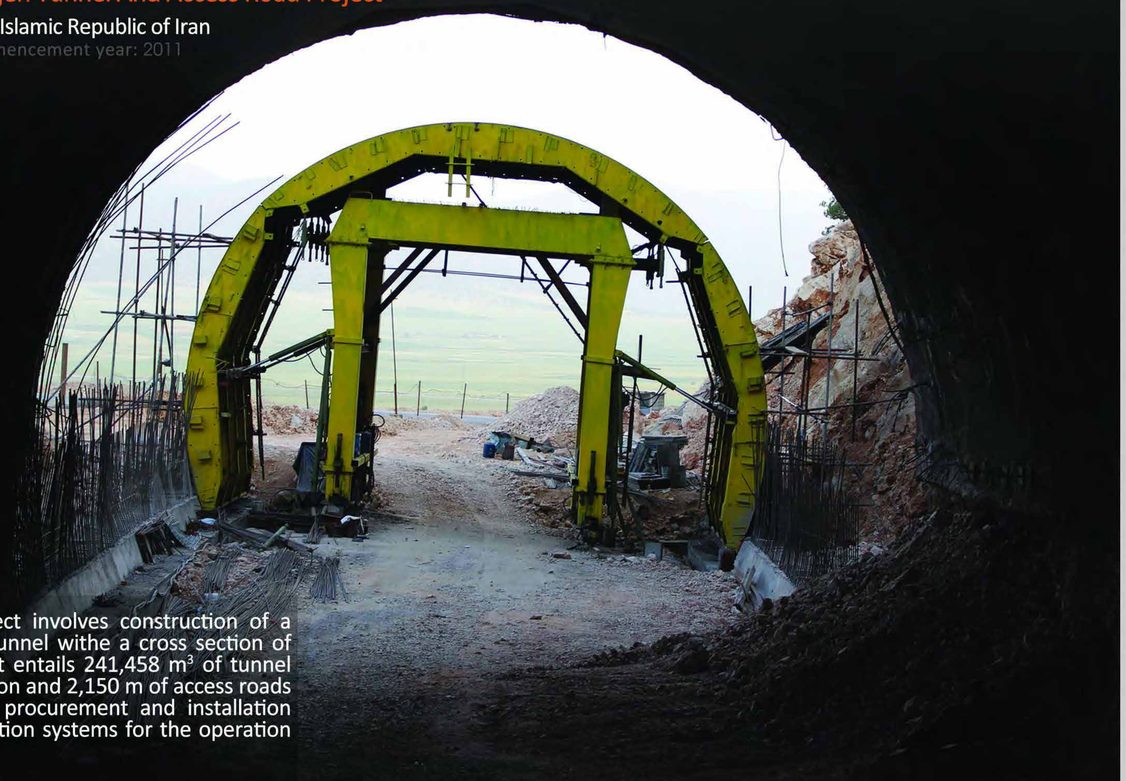
Sharjeh-United Arab Emirates
Commencement year: 2004





Ghalajeh Tunnel And Access Road Project

Ilam-Islamic Republic of Iran
Commencement year: 2011



The project involves construction of a 2,500m tunnel withe a cross section of 107 m^2. It entails 241,458 m^3 of tunnel execavation and 2,150 m of access roads including procurement and installation of ventilation systems for the operation period.



Shais – Khorfacan Road And Tunnel's Project

Sharjeh-United Arab Emirates
Commencement year: 2011

Alborz Tunnel And Access Road Project

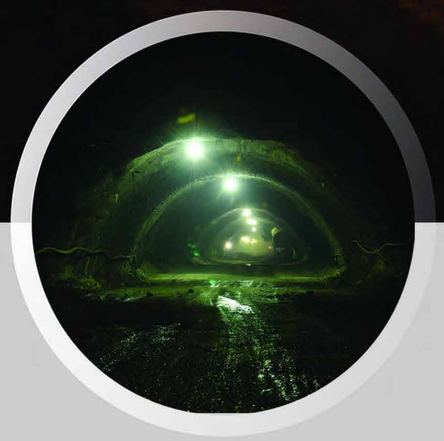
Alborz-Islamic Republic of Iran
Commencement year: 2010

The project involves construction of 2 main tunnels and a service tunnel. The service tunnel waz excavated by TBM.
Alborz main tunnels are the longest road tunnels in Iran with a length of **6600 m** each having a diameter of 12 m. Execution of these tunnels will shorten the existing 12 km mountainous road to 6 km.

Client: Tehran-shomal Freeway Co.









Bridge

Constructing Shahid Bakery Bridge
Tehran-Islamic Republic of Iran
Commencement year: 2013

Constructing Bridge Of Noor Square
Tehran-Islamic Republic of Iran
Commencement year: 2006

Constructing Azadegan Bridge
Tehran-Islamic Republic of Iran
Commencement year: 2013

Constructing Bridge Of lale Intersection
Tehran-Islamic Republic of Iran
Commencement year: 2011

Constructing Bridge Of Shahid Bagheri – Shahid Kharazi
Tehran-Islamic Republic of Iran
Commencement year: 2011

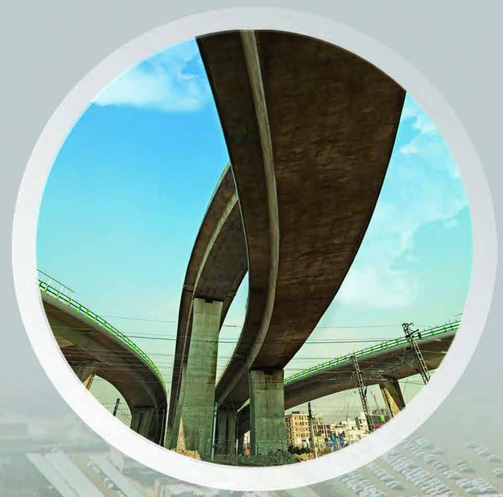


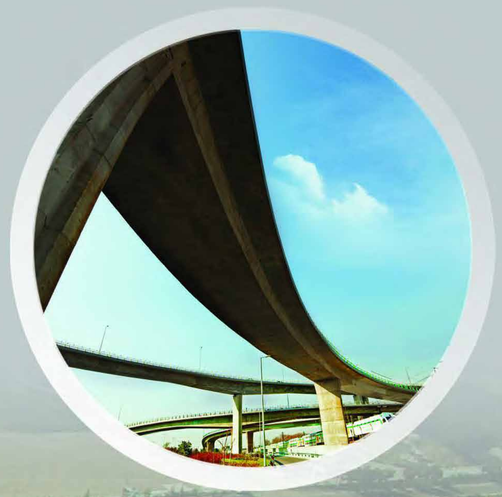
Constructing Shahid Bakery Bridge
Tehran-Islamic Republic of Iran

Constructing Shahid Bakery Bridge

Tehran-Islamic Republic of Iran
Commencement year: 2013

This bridge is an entrance for road transportation to Tehran and has coused traffic reduction in MohammadAli Jenah, Shaikh Fazel Allah Noori and Shahid Sattari highways





Excavation: 55,200 m^3
Embankment: 70,400 m^3
Asphalt: 1,200 ton
Rain forcement: 2,177 ton
Framework: 29,500 m







Constructing Bridge Of Shahid Bagheri – Shahid Kharazi

Tehran-Islamic Republic of Iran

Maimeh Reservoir Dam

Ilam-Islamic Republic of Iran
Commencement year: 2010

Nessa (Narmshir) CFRD Dam

Kerman-Islamic Republic of Iran
Commencement year: 2007

Soleiman-Shah Reservoir Clay Core Dam

Kermanshah-Islamic Republic of Iran
Commencement year: 2001

Ghasr-E-Shirin Reservoir Dam

Kermanshah-Islamic Republic of Iran
Under Construction

Water Tunnels Of Karoon3 Dam

Khozestan-Islamic Republic of Iran
Commencement year: 2000

The Project Of Design And Construction Of Western Tehran Wastewater Transmission Tunnel

Tehran-Islamic Republic of Iran
Under Construction

Water Supply

Nessa (Narmshir) CFRD Dam
Kerman-Islamic Republic of Iran

Nessa (Narmshir) CFRD Dam

Kerman-Islamic Republic of Iran
Commencement year: 2007

Being the first concrete face rock-fill dam(CFRD) in IRAN, Nessa (Narmashir) dam has a height of 111 m and a 10 m wide crescent with a length of 590 m and a reservoir capacity of 131 million cubic meters.
The project covers construction of dam az well as two diversion tunnels with a total length of 1246 m, instrumentation and hydromechanical equipment and ancillary works

Dam body embankment: 6,000,000 m^3
Rock fill: 3,700,000 m^3
Concrete works: 210,000 m^3
Grout drilling: 65 Km
Length of asphalted access road: 32 Km













Maimeh Reservoir Dam (EPC)

Ilam-Islamic Republic of Iran
Commencement year: 2010

The project site is located near the border with Iraq and in this regard plays an important role in regards to collection of water from the adjacent borderline river.
The dam was initially designed to be a rock-fill dam with clay core. However, further value engineering studies revealed that a combined dam body would be beneficial. Aditional studies and finalization of design considering one section of the dam to be constructed as GC type ane the other having a solid body (RC or similar types) are presently underway.

Dam body embankment: 3,200,000 m^3
Spillway: Free type in mid-axis of the dam
Length of spillway: 150 m

Ghasr-E-Shirin Reservoir Dam

Kermanshah-Islamic Republic of Iran
Under Construction



Karaj Wastewater Treatment

Alborz-Islamic Republic of Iran
Commencement year: 2006

Bam - Baravat Water Transmission Pipeline, Pumping Station And Water Treatment Plant Project

Kerman-Islamic Republic of Iran
Under Construction

Waste water and water treatment installations

Karaj Wastewater Treatment
Alborz-Islamic Republic of Iran
Construction of six units anaerobic and facultative ponds, with an average area of 18,000 to 4500 m^2, coarse and fine screens, emergency channel, administration building and landscraping works.

Bam - Baravat Water Transmission Pipeline, Pumping Station And Water Treatment Plant Project

Kerman-Islamic Republic of Iran
Commencement year: 2011

Client: Kerman regional water authority
The project involves procurement of pipes, valves, pumps and associated equipment and pipe laying with atotal length of 56 m having 1200 mm and 1000 mm diameter steel pipes.
It also consists construction of one pumping station and a water treatment plant with the capacity of 1.5 m^3/second

The majer equipment includes the followings:
- Numerous pumps, valves and connections
- Displacement blowers
- Filter presses for sludge dewatering
- Microstraiers
- Step screens
- pulsators
- Recycling ponds
- Diesel generators
- Surge tanks
- Ferric and chlorine storage tanks
- On site sodium hypochlorite generation system



The Project Of Design And Construction Of Western Tehran Wastewater Transmission Tunnel

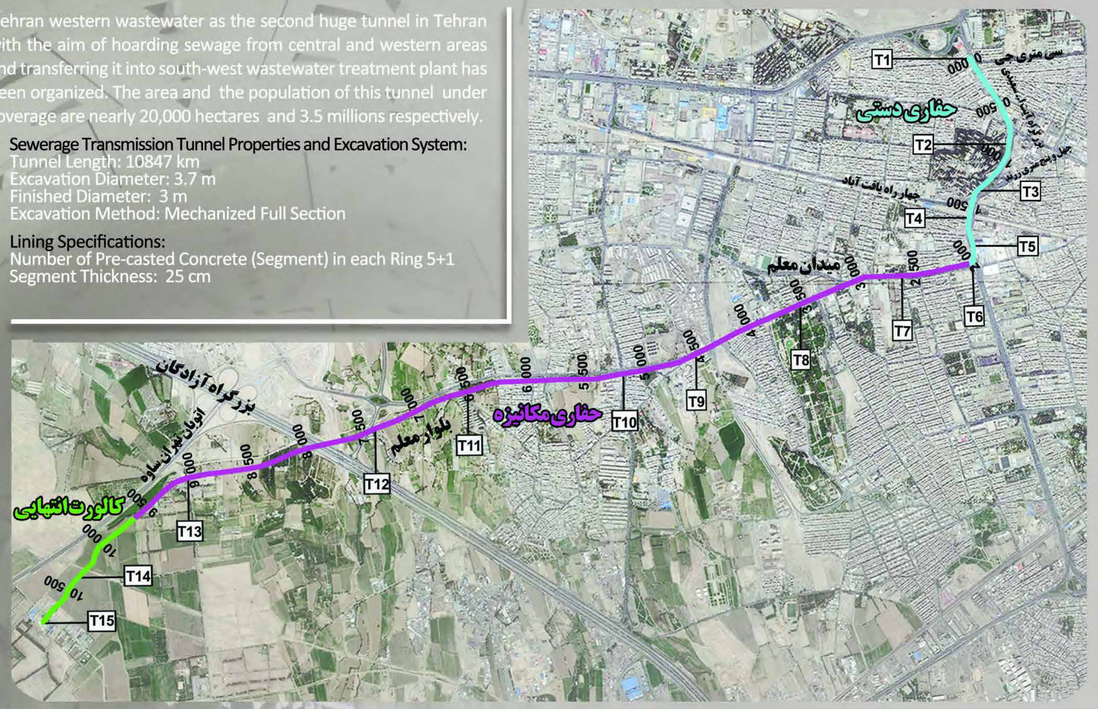
Tehran-Islamic Republic of Iran

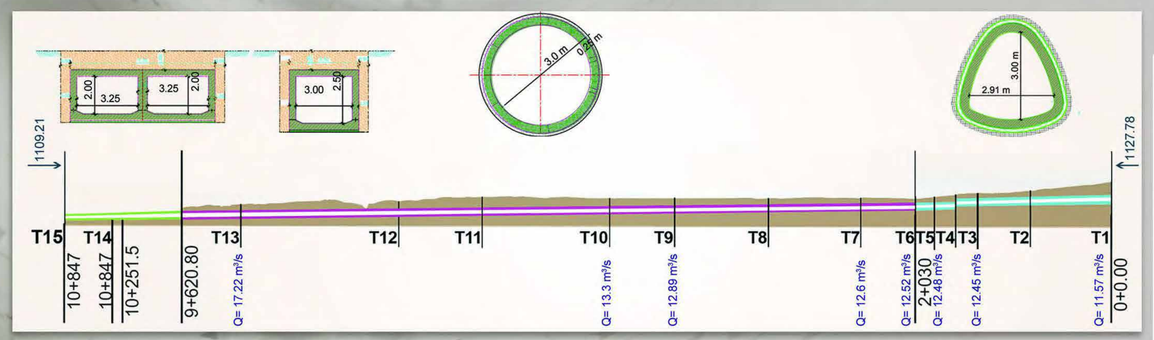
Under Construction

Tehran western wastewater as the second huge tunnel in Tehran with the aim of hoarding sewage from central and western areas and transferring it into south-west wastewater treatment plant has been organized. The area and the population of this tunnel under coverage are nearly 20,000 hectares and 3.5 millions respectively.

Sewerage Transmission Tunnel Properties and Excavation System:
Tunnel Length: 10847 km
Excavation Diameter: 3.7 m
Finished Diameter: 3 m
Excavation Method: Mechanized Full Section

Lining Specifications:
Number of Pre-casted Concrete (Segment) in each Ring 5+1
Segment Thickness: 25 cm





Excavation Machine (TBM)

Machine Type: EPB
Total Machine & Back up length: 80 m
Total Shield Length: 7.95 m











Pavment

- **Constructing Shamsi – Meybod – Arzhang**
  Yazd-Islamic Republic of Iran
  Under Construction

- **Tehran – Garmsar, Tehran – Qom And Qom Ring Road Railway Track Laying Project**
  Qom & Semnan-Islamic Republic of Iran
  Commencement year: 2009

- **Constructing Second Part Of Karaj – Qasvin Railway**
  Alborz-Islamic Republic of Iran
  Under Construction

- **Rey – Bahram Railway Track Base Construction Project (EPC)**
  Tehran-Islamic Republic of Iran
  Commencement year: 2008

Pavement of Tehran-Garmsar and Qom
Qom-Islamic Republic of Iran

Tehran – Garmsar, Tehran – Qom And Qom Ring Road Railway Track Laying Project

Qom & Semnan-Islamic Republic of Iran

Commencement year: 2009

The project involves construction of 376 km of rail road track including installation of ballast, travers, laying of track rails and switches.

Track rails (UIC60): 45,000 tons

Traverse: 600,000 No.

Balast: 1,000,000 m^3

Switches: 242 No.



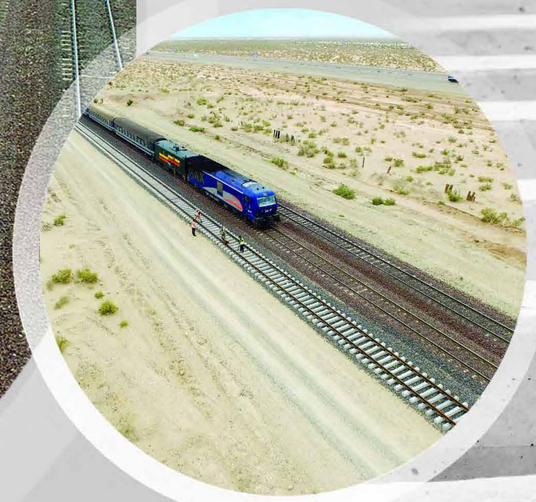




Constructing Shamsi – Meybod – Arzhang

Yazd-Islamic Republic of Iran

Under Construction







Rey – Bahram Railway Track Base Construction Project (EPC)

Tehran-Islamic Republic of Iran

Commencement year: 2008

This Project involves construction of a new dual railway track base in Rey-Bahram area near south of tehran. It con-













Anzali Jetty And Breakwater Construction Project

Gilan-Islamic Republic of Iran
Under Construction



Marine Structures

Anzali Jetty And Breakwater Construction Project

Gilan-Islamic Republic of Iran

Under Construction

Construction of initial part of East wing Breakwater with a total length 800 m & an adjacent Dyke with lenghth of 250m



It also consists of the following works:

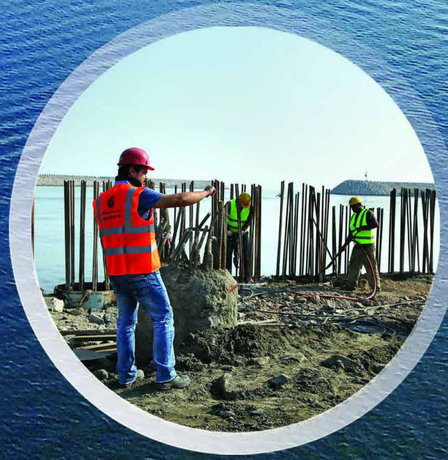
- -Completion of protection layer for west wing breakwater
- -Demolishing of old East Wing Breakwater (125m length)
- -Construction of 3 commodity Loading Jetties with a total lenght of 577m and the associated wall with a lenght of 58m.
- -Construction of 2 oil Loading Jetties with a Length of 180m each.
- -A 12 hectare soil improvement in reclamation area with dynamic compact method.

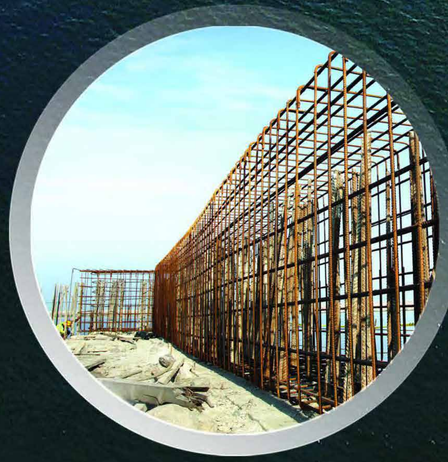


Anzali Jetty And Breakwater Construction Project

Gilan-Islamic Republic of Iran
Under Construction







Industrial Building and Structures

- **Constructing Radio And Television Building**
  Tehran-Islamic Republic of Iran
  Commencement year: 1987

- **Tejarat Bank Head Office**
  Tehran-Islamic Republic of Iran
  Commencement year: 1987

- **Tehran Cement Factory Expention Project (Two Phase)**
  Tehran-Islamic Republic of Iran
  1st Phaze:
  Commencement year: 2003
  2nd Phaze:
  Commencement year: 2011

- **Crystal Melamine Plant Bojnoord Petrochemical Complex**
  Khorasan-Islamic Republic of Iran
  Commencement year: 2003

- **Constructing Ramin Power Station**
  Khozestan-Islamic Republic of Iran
  Commencement year: 1998



Constructing Radio And Television Building
Tehran-Islamic Republic of Iran



Constructing Radio And Television Building

Tehran-Islamic Republic of Iran

Commencement year: 1987

Tejarat Bank Head Office

Tehran-Islamic Republic of Iran

Commencement year: 1987

Tejarat Bank Head Office, a 17 story building.
While the main structure is made of steel, three reunforced concrete stories in the basement serve as the parking. The building with its glass facade is considered one of the most attractive engineering works in TEHRAN.





Crystal Melamine Plant Bojnoord Petrochemical Complex

Khorasan-Islamic Republic of Iran

Commencement year: 2003

Fabrication, sandblasting, painting, transportation and installation of steel structures, roof sheeting works.

Tehran Cement Factory Expention Project (Two Phase)

Tehran-Islamic Republic of Iran

1st Phase:

Commencement year: 2003

The project being unit No.8 of Tehran Cement Factory consisted of 54 distinct departments, including a five level pre-heating unit having an 87 m height, a new heating system, raw materials and cement clinker mills and construction of relevant industrial buildings.

designed and constructed in accordance with latest enviromental standards, the factory has a capacity to produce 3400 tons of cement per day.

2nd Phase:

Commencement year: 2011

The project consists of:

Cement transferring galleries, Silos,Water storage facilities, Mechanical facilities, canals an associated industrial buldings.





Constructing Ramin Power Station

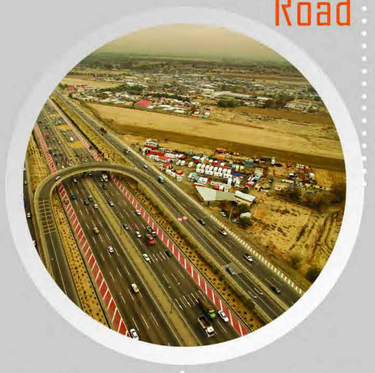
Khozestan-Islamic Republic of Iran

Commencement year: 1998

A thermolectric power plant in Ahwaz-Iran, constructed jointly with Techno-Prom export of former USSR.

All Projects

Road



Borzouye petrochemical
Booshehr – Iran/ 2001

Pars petrochemical
Booshehr – Iran/ 2001

Soorab – kalat road
Kerachi – Pakistan/2000

Kalba to lagoon road
Sharjah – UAE/ 2004

Wady – modiq road
Sharjah – UAE/ 2002

Performing Kerachi road
Kerachi – Pakistan/ 1995

Difta – Shais road
Shajah – UAE/ 2011

Zenjan – Tabriz freeway part 2/A
Zanjan – Iran/ 2011

Zanjan – Tabriz freeway part 2/B
Zanjan – Iran/ 1999

Gilay road
Sharjah – UAE/ 2002

Aljais mountainous road
Sharjah- UAE/ 2007

Tehran – Shomal freeway and Roshandareh bridge
Mazandaran – Iran/ 2012

Shahid Bakery bridge
Tehran – Iran/ 2013

Alborz tunnel of Tehran – Shomal freeway
Tehran – Iran/ 2012

Railway tunnel of Mashad – Bafq
Khorasan – Iran/ 1997

Shebli tunnel part 2/A of Zanjan - Tabriz
Zanjan – Iran/ 2012

Difta – shais tunnel
Sharjah – UAE/ 2011

Ghalaje tunnel
Illam – Iran/ 2011

Shais – Khorfacan tunnel
Sharjah – UAE/ 2011

Noor squar Bridge
Tehran – Iran/2013

Azadegan intersection bridge
Tehran – Iran/ 2013

Lalle intersection road
Tehran – Iranv/ 2011

Water



Karaj wastewater treatment
Alborz – Iran/ 2006

Soleiman-Shah reservoir dam
Kermanshah – Iran/ 2006

Nessa reservoiur dam
Kerman – Iran/ 2007

Maimeh reservoir dam
Illam – Iran/ under construction

Ghasre-E-shirin reservoir dam
Kermanshah – Iran/ under construction

Treatment plant and water supply
Project of Bam – Baravat
Kerman – Iran/ under construction

Railway



Bafq – Mashad railway part 10/A
Mashhad – Iran/ 2004

Shamsi – Meybod – Arjang railway
Yazd – Iran/ under construction

Pavement of Tehran – Garmsar railway and Qom
Gom – Iran/ under construction

Second part of karaj – ghazvin railway
Mashhad – Iran/ under construction

Marine structures



5 berths of Bandar Anzali and eastern breakwater
Gilan – Iran/ under construction









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