



PAVAN construction co.



No.29, Fatemiyeh St, Saba Blvd, Qeytarieh, Tehran, Iran

Tel: +98 21 40227304 Fax: +98 21 40227207

www.pavanco.com E-mail: Info@pavanco.com

***COMPANY'S
OVERALL INFORMATION***

General Information of the Company

Company'S Name : PAVAN Construction Co.

Central Office Address : No. 29 - Fatemiyeh St - Saba Blvd - Qeytarieh - Tehran - Iran-1933694344

| | | | |
|---|--|---|-------------------------|
| Tel No :+98-21-40227304 , +98-21-40227324 | | Managing Director : AHMAD KHARAZI | |
| Fax No : +98-21-40227207 | | Registration Place Company : TEHRAN - IRAN | Registration No : 82893 |
| Registration Date : 29/03/1991 | | Registered Capital : 1,854,000 US. Dollars | |
| Email Address : info@pavanco.com | | Type of Company : Private Joint Stock Company | |

Main Share Holder Information

| ROW | Name & Surname | Share Percentage | Position | Field of Knowledge | Graduating Date | Company Entering Date |
|-----|---------------------|------------------|---------------------|--------------------|-----------------|-----------------------|
| 1 | AHMAD KHARAZI | 37% | Managing Director | Civil Eng. | February 1980 | 1991 |
| 2 | FARHAD KHARAZI | 37% | Board Director | Civil Eng. | September 1987 | 1991 |
| 3 | SAMERAND BABATAHERI | 9.20% | Member of the Board | Civil Eng. | September 1997 | 1997 |

***Contractor's Certificate of
Competency***

State Emblem

Number: 141622

Islamic Republic of Iran

Date: 21/06/2021

Vice-Presidency for Strategic Planning and Supervision

Contractor's Certificate of Competency

Sir Ahmad Kharazi

Respectable Manager of Pavan construction company

Registration Number: 82893

National Identity: 10101275170

On the strength of approval No. H23251T/48013, dated March 2, 2003 enacted by the respectful ministers' council, and according to obtaining necessary conditions and confirmation of Pavan company competency in Comprehensive System of Identifying the Competency of technical and administrative system agents, competency of the abovementioned company hereby is announced for performing contractual affairs as follows:

- | | |
|--|------------------------|
| • First Grade on Building and Structure field | with 4 allowable works |
| • First Grade on Dams, Canals, Conveyance canals, Irrigation network | with 4 allowable works |
| • First Grade on Road, Tunnel, Railway and Transportation field | with 4 allowable works |
| • First Grade on Installations and Equipment field | with 4 allowable works |
| • Fifth Grade on Industry and Mine field | with 3 allowable works |

Observation of Law for holding tenders approved under No. 130890 dated Feb. 05, 2005, of the relevant Bye- Law and authorized working capacity at the time of referring work by that company shall be compulsory.

Seyed Javad Ghanefar
Deputy of Strategic Supervision, Consultants and Contractors

The present certificate is being valid as of issuing date to end of evaluation term and utmost till 06/07/2025.

PAVAN CONSTRUCTION COMPANY



COMPANY'S PROJECTS

Projects were done by Company

PAVAN Construction Co.

| ROW | Agreement Subject | Employer's Name | Consultant's Name | Project Place | Sum of Agreement in US. Dollars | Finishing Date |
|-----|---|--|--|---------------|---------------------------------|----------------|
| 1 | 400 Residential units - Sanandaj | National Land & Housing Organization | Kurdistan Housing Authority | Sanandaj | 7,745,300 | December 1998 |
| 2 | Payab Gheshlagh's main conveyance canal - Sanandaj | West Regional Water Authority | Lar Consulting Engineer Co. | Sanandaj | 7,578,348 | December 2002 |
| 3 | Abas abad's Interchange Bridges -Tehran | Tehran Municipality | Sazian Consulting Engineer Co. | Tehran | 8,262,108 | March 2003 |
| 4 | Cultural Complex - Sanandaj | Kurdistan Governorate | Engineer Farhadi & Colleagues | Sanandaj | 8,547,009 | March 2003 |
| 5 | Excavation and Supporting structure - Station V2 - Tehran Metro | Tehran urban and suburban railway company (Metro) | Sano Consulting Engineer Co. | Tehran | 2,019,182 | March 2004 |
| 6 | Water Conveyance Canal from Simindasht to Garmsar from km 13+646 to km 20+420 | Tehran Regional Water Authority | Lar Consulting Engineer Co. | Simin Dasht | 3,785,489 | June 2004 |
| 7 | Water Diversion Tunnel - Marvak dam | West Regional Water Authority | Ab Fan Consulting Engineer Co. | Dorood | 13,675,214 | July 2004 |
| 8 | Wagon Manufacturing Factory - Metro south terminal- Tehran | Tehran urban and suburban railway company (Metro) | Boad Chaharom Novin Consulting Engineer Co | Tehran | 8,498,914 | January 2007 |
| 9 | Irrigation & Drainage Network of Bilevar field - Kamyaran | Kermanshah Regional Water Authority | Mahab Ghodss Consulting Engineer Co. | Kamyaran | 6,863,426 | March 2008 |
| 10 | Aidoghmoosh- Water conveyance canal and tunnel - Miyaneh | East Azarbajejan Regional Water Authority | Yekom Consulting Engineer Co. | Miyaneh | 25,171,371 | November 2009 |
| 11 | Tohid Metro Station E4 and 1280 meter Tunnel of Line 4 - Tehran | Tehran urban and suburban railway company (Metro) | Polmir Consulting Engineer Co. | Tehran | 27,186,265 | August 2012 |
| 12 | Shahid Madani (VANYAR) Dam & Baghmisheh Road & Airport Road | East Azarbajejan Regional Water Authority | Ghods Niroo Consulting Engineer Co | Tabriz | 49,415,730 | July 2012 |

Projects were done by Company

PAVAN Construction Co.

| ROW | Agreement Subject | Employer's Name | Consultant's Name | Project Place | Sum of Agreement in US. Dollars | Finishing Date |
|-----|--|---|--------------------------------------|------------------|---------------------------------|----------------|
| 13 | Preparation, civil, landscaping and infrastructure installation area outside of the ring of multipurpose complex of Hesarak, Karaj | Iranian Development Direction Company | Bavand Consulting Engineer Co | Karaj | 29,468,352 | June 2015 |
| 14 | Miyaneh-Bostanabad-Tabriz Railway Lot 5 from km 86+996 to km 106+997 and Heidar Baba Bridge with 420 m. Length | Road and Transport Ministry-Implement and development of infrastructure of Transportation company | Haraz Rah Consulting Engineer Co | Qharechaman | 56,939,804 | August 2016 |
| 15 | Khoda Afarin Main Canal and related technical buildings | East Azarbayejan Regional Water Authority | Tavan Ab Consulting Engineer Co | Khoda Afarin | 123,304,323 | August 2017 |
| 16 | Lot 5 and Lot 6 of Tizh Tizh - Garan Road and Baghan Tunnel | Main Office Of Roads & Urban Development Of Kurdistan | Rahyab Melal Consulting Engineers Co | Sanandaj-Marivan | 177,518,899 | June 2021 |
| 17 | Ghiz Ghale' Si Dam Project (Constructional works and first stage of hydro mechanical instruments) | East Azarbayejan Regional Water Authority | Mahab Ghodss Consulting Engineers Co | Khomarloo | 847,966,578 | January 2022 |

Executorial Experiences - Company's Current Projects

PAVAN Construction Co.

| ROW | Agreement Subject | Employer's Name | Consultant's Name | Project Place | Sum of Agreement in US. Dollars | Finishing Date according to Agreement | Progress Percentage |
|-----|--|---|-------------------------------|---------------|---------------------------------|---------------------------------------|---------------------|
| 1 | Lot 5 of Khaje- Varzeqan - Aghababa Highway | Main Office Of Roads & Urban Development Of East Azarbayejan | Rahab Consulting Engineers Co | Varzeqan | 65,735,652 | 16/10/2021 | 36% |
| 2 | Subgrade construction of the Fourth Section of Ilam Province Connection to Country's Railway Network | Road and Transport Ministry- Construction and Development of Transportation Infrastructures Company | Pars Consulting Engineers Co | Kermanshah | 116,067,900 | 30/11/2023 | 6% |
| 3 | Section 4 of Khorramabad- Poldokhtar axis (Morani- Poldakhtar border) | Road and Transport Ministry- Construction and Development of Transportation Infrastructures Company | Hexa Consulting Engineers Co | Khorramabad | 147,299,762 | 22/06/2023 | 15% |

***PROJECTS DESCRIPTION
& PICTURE***

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**400 Residential Units -
Sanandaj**



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400 Residential Units - Sanandaj

(1997-1998)



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This project was built in the mountain zone and located in south of Sanandaj city and the Area is about 30156 square meter. All the process including all design phases (architectural , structure , instalation) and implementation works was done by this company . This complex included 400 Residential units in pour separate block and different Area included : (37 , 45-48 , 53 , 65 , 72) square meter.

The structure system that is used in this Complex is concrete frame with light ceiling materials. Heating system is heater and the Air condition system is water cooler .

Mentionable that the total Area of this complex is about 28000 square meter .

Major operation activities are :

| | | |
|--------------------|--------|-------|
| 1- Excavation | 43,235 | Cub.m |
| 2- Embankment | 26,300 | Cub.m |
| 3- Concrete Work | 11,266 | Cub.m |
| 4- Bar Work | 750 | Ton |
| 5-Light Steel Work | 25 | Ton |
| 6- Cast Iron Pipe | 16,266 | M.L |
| 7- Steel Pipe | 25,666 | M.L |

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***Payab Gheshlagh's Main
Conveyance Canal -
Sanandaj***



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Payab Geshlaghs Main Conveyance Canal - Sanandaj (1999-2002)



PAVAN Construction Co.

Including :procurement of all construction equipment and construction , installing,Analayzing and Implement of the Gheshlagh payab main conveyance canal and making of hydro mechanical equipment related to flow control system and training the operation personnel and procurement of the As-Built drawings and preparing and maintenance and operation instruction .

Major operation activities are :

| | | |
|---|--------|-------|
| 1- Excavation-in rock & soil | 97,840 | Cub.m |
| 2- Excavation-Canal | 37,368 | Cub.m |
| 3- Form Work | 72,469 | Sq.m |
| 4- Bar Work | 1,065 | Ton |
| 5- Concrete Work | 17,676 | Cub.m |
| 6- Construction of Administrative & Residential & Back up | 728 | Sq.m |

PAVAN Construction Co.

***AbasAbad's Interchange
Bridges - Tehran***



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Abas Abad`s Interchange Bridges - Tehran (2001-2003)



Constructing the Interchange Bridges No .2 , 3 and retaining walls zone No . 4 - Abas Abad field .

Major operation activities are :

| | | |
|--------------------|--------|-------|
| 1- Excavation | 97,648 | Cub.m |
| 2- Embankment | 3,955 | Cub.m |
| 3- Form Work | 19,786 | Sq.m |
| 4- Bar Work | 1,380 | Ton |
| 5-Heavy Steel Work | 72 | Ton |
| 6- Concrete Work | 12,434 | Cub.m |

PAVAN Construction Co.

Cultural Complex - Sanandaj



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Cultural Complex - Sanandaj

(2000-2003)



Including :Construction of cultrual complex in sanandaj city. Type of structure is consist of concrete frame with light ceiling. Total area is about 12000 square meter that included in to amphitheater , gathering hall , library and landscaping , also providing all the equipments and installations. This cultrual complex is the largest and one of the most complete in the west zone of the country.

Major operation activities are :

| | | |
|--------------------|--------|-------|
| 1- Excavation | 13,482 | Cub.m |
| 2- Concrete Work | 6,183 | Cub.m |
| 3- Bar Work | 430 | Ton |
| 4-Heavy Steel Work | 452 | Ton |
| 5-Light Steel Work | 71 | Ton |
| 6-Stone wall | 12,000 | Cub.m |
| 7- Cast Iron Pipe | 2,500 | M.L |
| 8- Steel Pipe | 6,500 | M.L |

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***Excavation and Supporting
Structure - Station V2 -
TEHRAN Metro***



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Excavation and Supporting Structure - Station V2 -Tehran Metro(2002-2004)



Excavation and Supporting Structure- Station V2- Tehran Metro

PAVAN Construction Co.

Including : 119 concrete piles excavation(Dia. : 1 meter ave. depth : 27 meter) in order to support the temporary steel deck . Construction and installation of 55 steel deck (ave. length : 20 meter - ave. width : 2.5 meter - ave. weight : 20 ton)

Construction and installation of concrete piles struts in 4 levels (ave. weight : 800 ton)

- Excavation under the installed steel deck.

Major operation activities are :

| | | |
|---------------------------|--------|-------|
| 1- Excavation-open area | 12,000 | Cub.m |
| 2- Excavation-closed area | 35,000 | Cub.m |
| 3- Pile excavation | 4,000 | M.L |
| 4- Bar Work | 380 | Ton |
| 5- Concrete | 6,320 | Cub.m |
| 6-Heavy Steel Work | 1,500 | Ton |
| 7-Asphalt | 15,092 | Sq.m |

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***Water Conveyance Canal
from Simindasht to
Garmsar - km 13+646
to km 20+420***



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Water Conveyance Canal from Simindasht to Garmsar (2002-2004)



Water Conveyance Canal from Simindasht to Garmsar - km 13+646 to km 20+420

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Including :Construction of the canal (ave. length :6774 meter) , Angled drops (30 no.) , Concrete culverts (10 no.) ,Overpass bridges in form of aquaduct (ave . Length : 50 meter) , Containing Wall (ave. length : 3750 meter), Concrete Siphone (ave . Length : 250 meter) , Covered concrete box (ave. length 400 meter)and intake structures(4 no.)

Major operation activities are :

| | | |
|--|---------|-------|
| 1- Excavation-in rock &soil | 770,362 | Cub.m |
| 2- Excavation-Canal | 13,028 | Cub.m |
| 3- Embankment | 621,537 | Cub.m |
| 4- Rock fills and Masonary Walls | 24,300 | Cub.m |
| 5- Form Work | 56,311 | Sq.m |
| 6- Bar Work | 905 | Ton |
| 7- Concrete work | 28,552 | Cub.m |
| 8- Construction of Administrative & Residential & Back up bld. | 520 | Sq.m |

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***Water Diversion Tunnel -
Marvak Dam***



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Water Diversion Tunnel - Marvak Dam

(2001-2004)



Water Diversion Tunnel - Marvak Dam

PAVAN Construction Co.

Including implementing and excavation and lining of the two Tunnel , each 500 meter long and two vertical and one angled shaft (total length:120 meter) and their subordinate structures in beginning along and at the end of the part and also Pre-Constructing the camp and landscaping of the camp.

Major operation activities are :

| | | | |
|--|---------|-------|--|
| 1- Excavation | 138,754 | Cub.m | |
| 2- Embankment | 67,312 | Cub.m | |
| 3- Drilling work (Tunnel & Shaft) | 39,595 | Cub.m | |
| 4- Bar Work | 445 | Ton | |
| 5-Concrete Work | 13,694 | Cub.m | |
| 6- Construction of Administrative & Residential & backup buildings | 1,926 | Sq.m | |

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***Wagon Manufacturing
Factory - Metro south
Terminal - Tehran***



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Wagon Manufacturing Factory - Metro South Terminal - Tehran (2004-2007)



PAVAN Construction Co.

Including :Construction of six buildings of the wagon manufacturing factory -Fath Abad- Tehran.

The project is located in front of the FathAbad refinery- Qom Road- Azadegan highway

The buildings details are mentioned below:

1- Building no.1-(wagon montage site)-includes two parts -First part :main site for manufacturing two storey and typical wagon - Second Part : administrative building -Total area is about 19500 square meters .In the main site,steel trusses are used in roofing and the structure of administrative building is steel.

2- Building no.2 - (Electrical post)- contains of the two storey concrete building with a total area of 300 square meters.

3- Building no. 3- (Dormitory & Restaurant & Hospital &Prayer room)- contains of two storey concrete buliding with a total area of 1400 square meters.

4- Building no. 4- (Security room-Fire room)- contains of one storey concrete buliding with a total area of 300 square meters.

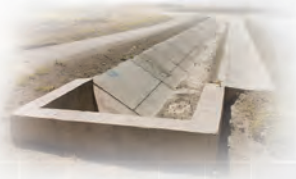
5- Buildings no. 5 & 6 are used as mechanical room.

Major operation activities are :

| | | |
|------------------------------------|--------|-------|
| 1- Excavation&Embankment | 40,000 | Cub.m |
| 2- Form Work | 15,000 | Sq.m |
| 3- Bar Work | 1,200 | Ton |
| 4- Concrete | 10,000 | Cub.m |
| 5- Heavy steel Work | 1,700 | Ton |
| 6- light steel Work | 300 | Ton |
| 7-Covering walls - sandwich pannel | 10,000 | Sq.m |

PAVAN Construction Co.

***Irrigation and Drainage
Network of Bilevar Field -
Kamyaran***



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Irrigation and Drainage Network of Bilevar Field - Kamyaran (2004-2008)



Irrigation and Drainage Network of Bilevar Field -Kamyaran

PAVAN Construction Co.

Including :Implementing and construction of irrigation and drainage network of B3,B4 zones- developing area of BILEVAR field.This project was located between Kermanshah and Kordistan Provinces and was 70 Km far from Kermanshah city-west of the Kamyaran city.

Overall description:

| | | |
|--|----|----|
| 1- Main canal | 20 | Km |
| 2- Rock drainage | 30 | Km |
| 3- Cement piping | 13 | Km |
| 4- technical buildings of canal& drainage &pipes | | |

This project contains several parts : Construction of the main canal and siphons that passed rivers and roads- Pipelining- Installing valves-Implementing basins and construction of drainages and structures related to it.

Major operation activities are :

| | | |
|--|---------|-------|
| 1- Excavation-in rock &soil | 526,780 | Cub.m |
| 2- Excavation-Canal | 204,033 | Cub.m |
| 3- Embankment | 479,742 | Cub.m |
| 4- Rock fills and Masonary Walls | 50,566 | Cub.m |
| 5- Form Work | 44,654 | Sq.m |
| 6- Bar Work | 1,040 | Ton |
| 7- Concrete work | 20,657 | Cub.m |
| 8- Construction of Administrative & Residential & Back up bld. | 1,200 | Sq.m |

PAVAN Construction Co.

***Aidoghmoosh - Water
conveyance Canal and
Tunnel - MIYANEH***



PAVAN construction co.



Aidoghmoosh- Water Conveyance Canal and Tunnel - MIYANEH

(2005-2009)



PAVAN Construction Co.

Including :implementing and construction of the Aidoghmoosh irrigation and drainage network included conveyance tunnel and canal.

Project is located in Aidoghmoosh area -south of the Miyaneh city.

Detials are mentioned below:

- 1- Construction of the canal (ave. length : 6.7 Km)
- 2- Construction of one unit of tunnel (ave. length : 2.28 Km)
- 3- Construction of two unit of tunnel (ave. length of each one: 560 m)
- 4- Construction of the technical buildings related to canal .
- 5- Construction of the canal service roads (ave.of total length : 6.7 Km)

Major operation activities are :

| | | |
|-----------------------------|---------|-------|
| 1- Excavation-in rock | 879,000 | Cub.m |
| 2- Excavation-Canal in rock | 147,800 | Cub.m |
| 3- Tunnel drilling | 73,155 | Cub.m |
| 4- Steel frames for tunnel | 74 | Ton |
| 5- Form Work (canal) | 69,180 | Sq.m |
| 6- Form Work (tunnel) | 15,697 | Sq.m |
| 7- Bar Work | 3,590 | Ton |
| 8- Concrete work (canal) | 22,361 | Cub.m |
| 9- Concrete work (tunnel) | 20,993 | Cub.m |
| 10- Shotcrete | 80,842 | Sq.m |

PAVAN Construction Co.

***Tohid Metro Station (E4),
And 1280 meter Tunnel Of
Line 4 -Tehran***



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Tohid Metro Station (E4), and tunnel of Line 4 - Tehran

(2007-2011)



Tohid Metro Station (E4) , and the 1280 m. tunnel of Line 4 - Tehran

PAVAN Construction Co.

Implementing operations in Tohid Metro Station (E4) , and the 1280 m. tunnel of Line 4:

1. Structure and guard structure of the station
2. Station's architecture
3. Station's electrical and mechanical installations
4. Tunnel ventilator (E4-D4)
5. 1280 m. Tunnel

Tohid Station has an area of 11550 square meters and includes the following items:

Ticket Hall: 5950 square meters, platform level: 440 square meters, below platform level:

1200 square meters, a unit of tunnels: 1280 meters.

Major operation activities are :

| | | |
|---------------------------|---------|--------|
| 1- Station Excavation | 126,000 | Cub.m |
| 2- Pile Excavation | 2,534 | meters |
| 3- Tunnel Excavation | 85,000 | Cub.m |
| 4- Bar Work | 5,460 | Ton |
| 5- Framing | 33,748 | Sq.m |
| 6- Formwork in the tunnel | 30,343 | Sq.m |
| 7- Concrete | 59,879 | Cub.m |
| 8- Shotcrete | 68,000 | Sq.m |
| 9- Heavy steel works | 2,130 | Ton |

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***Shahid Madani
(VANYAR) Dam***



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Madani Dam - Tabriz 1400

(2007-2012)



Shahid Madani (Vanyar) Dam and the dependant structures including :

- Executive operation on Vanyar Dam and lateral structures
- Access way from Baghmisheh to crest, with 6.15 kilometer length.
- Access way from Dam to Airport with 8.5 kilometer length.

Operation territory and a brief description of project details:

VANYAR'S RESERVOIR:

This dam is located on Aji Chai river situated at the lower part of Vanyar Village within 5 kilometers of northeast of Tabriz (Tabriz-Abhar Road). The dam is made of clay core with a foundation of 92 meters high and a crest of 277.35 meters long and 10 meters wide.

| | | |
|----------------------|-----------|-------|
| 1- Excavation | 1,950,000 | Cub.m |
| 2- Shell Gravel | 655,080 | Cub.m |
| 3- Rockfill | 454,000 | Cub.m |
| 4- Clay | 370,000 | Cub.m |
| 5- Coarse filter | 98,000 | Cub.m |
| 6- Fine filter | 98,000 | Cub.m |
| 7- Transition Gravel | 64,500 | Cub.m |
| 8- Rip-Rap | 62,500 | Cub.m |
| 9- Bar work | 4,450 | Ton |
| 10- Form work | 55,500 | Sq.m |
| 11- Concrete work | 95,000 | Cub.m |

Baghmisheh and Airport Roads

| | | |
|---------------|-----------|-----------|
| 1- Excavation | 360,000 | Cub.m |
| 2- Embankment | 145,000 | Cub.m |
| 3- Subbase | 42,000 | Cub.m |
| 4- Base | 29,000 | Cub.m |
| 5-Asphalt | 1,230,000 | Sq.m / cm |

PAVAN Construction Co.

***Preparation, Civil, Landscaping
and Infrastructure Installation
Area Outside of the Ring of
Multipurpose Complex of
Hesarak , Karaj***



PAVAN construction co.

**Preparation, Civil, Landscaping and Infrastructure Installation of
Hesarak Multipurpose Complex, Karaj (2013-2015)**



Preparation,Civil,Landscaping and Infrastructure Installation Area Outside of the Ring of Multipurpose Complex of Hesarak , Karaj

PAVAN Construction Co.

The Alborz Madani Center is located in area of 150000 m² in Hesarak Karaj. This project includes preparation operations as well as excavation, landscaping and also infrastructure installation as well as high tension power grid, telephone, water and waste water installation, construction of main electrical post enclosure and building , waste water purification and water supply zone.

Major operation activities are :

| | | |
|-----------------------|---------|-------|
| 1- Excavation | 123,280 | Cub.m |
| 2- Foundation digging | 121,600 | Cub.m |
| 3- Embankment | 102,840 | Cub.m |
| 4- Form work | 50,000 | Sq.m |
| 5- Bar work | 1,500 | Ton |
| 6- Concrete work | 13,070 | Cub.m |
| 7- Steel work | 110 | Ton |
| 8- Polyethylene pipe | 3,918 | ML |

PAVAN Construction Co.

**Miyaneh - Bostanabad- Tabriz
Railway Lot 5 From km
86+996 to km 106+997 and
Heidarbaba Bridge with 420 m
Length**



PAVAN construction co.



Miyaneh-Bostanabad-Tabriz Railway Lot 5

(2012-2017)



Miyaneh-Bostanabad-Tabriz Railway Lot 5 from km 86+996 to km 106+997 and Heidar Baba Bridge with 420 m Length

PAVAN Construction Co.

Miyaneh - Bostanabad - Tabriz Railway- lot 5,from 86+996 kilometer to 106+997, is located in Eastern Azerbaijan and includes the following processes:

- 1- Earthworks,including all neccessary functions to complete the railway infrastructure.
- 2-Heidarbaba great bridge with 420 meter length including two 30 meteres spans and nine 40 meteres spans, 136 piles and 1700 tons Iron deck.
- 3- Technical buildings including bridges,culverts,walls and another technical buildings and protection works.
- 4- 230 meteres Gallery
- 5- 150 meteres Retaining walls
- 6-Special Bridge intersects with oil and gas pipes with 13 meters span and 18 piles.
- 7- Shahryar Way Station with 300 square meters area and the implementation of related facilities and landscaping

Major operation activities are :

| | | |
|---------------------|-----------|-------|
| 1- Excavation | 2,150,220 | Cub.m |
| 2- Embankment | 750,000 | Cub.m |
| 3- Bar work | 3,965 | Ton |
| 4- Form work | 51,000 | Sq.m |
| 5- Concrete work | 42,360 | Cub.m |
| 6- Heavy steel work | 1,700 | Ton |
| 7- Pile Driving | 154 | Pcs |
| 8- Way Station | 300 | Sq.m |
| 9- Predalle | 4,620 | Sq.m |

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***Khoda Afarin Main Canal and
Related Technical Buildings***



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Khoda Afarin Main Canal

(2013-2017)



PAVAN Construction Co.

Khoda Afarin Main Canal is located in Eastern Azerbaijan. This zone of operations is a part of the border river of Aras basin area and is located in northern latitudes of the country. The main canal length is about 14.89 kilometers, and includes the following processes:

| | |
|---|---------------|
| 1- Main canal with a trapezoidal cross section with concrete cover (lining) | 11,840 meters |
| 2- Rectangular canal with reinforced concrete | 1,540 meters |
| 3- Culvert structure with reinforced concrete, under the main canal direction | 53 sets |
| 4- 2 set of siphons with five string steel pipes of 3000 mm. diameter | 3,480 meters |
| 5- Impoundments | 10 sets |
| 6- Car bridge structures | 8 sets |
| 7- Side spillway structure | 2 sets |
| 8- Supper passages | 4 sets |

Major operation activities are :

| | | |
|--------------------------------|-----------|-------|
| 1- Excavation | 4,083,515 | Cub.m |
| 2- Embankment | 1,701,865 | Cub.m |
| 3- Canal digging | 657,145 | Cub.m |
| 4- Form work | 96,475 | Sq.m |
| 5- Bar work | 5,490 | Ton |
| 6- Concrete work | 296,175 | Cub.m |
| 7- 3000 mm diameter Steel pipe | 3,480 | M |

PAVAN Construction Co.

Ghiz Ghale' Si Dam Project



PAVAN construction co.



Ghiz Ghale' Si Dam Project

(2016 - 2022)



This project is located in The Eastern Azarbaijan Province, and includes the following processes:

A. Constructional works

- 1- Embankments, Drilling and grouting in side banks.
- 2- Agricultural outlet structures and Left and right control buildings
- 3- Spillway structures and Left and right power plants
- 4- Second stage of Diversion
 - Excavation the ending of right and left outlet canals.
 - Removing dykes and implementation of intermediate dyke.
 - Construction and waterproofing of intermediate dyke.
- 5- Dam body -intermediate section.
- 6- Left and right spillway structures -final stage.
- 7- Catchment basins for Khod Afarin dam.
- 8- Supplementary works, asphalt and lighting system of crest.

B. First stage of hydro mechanical, electrical and control instruments.

1. Bottom tipper system.
2. Hydro mechanical instruments of power plant.
3. Diversion gate.
4. Designing, supply, production, transportation and installation of all Electricity and control elements
5. Training of employer personnel.
6. Checking and completing the designs of frame lid of service, emergency, electricity and control

Major operation activities are :

| | | |
|-------------------|-----------|-------|
| 1- Excavation | 1,240,000 | Cub.m |
| 2- Shell Gravel | 951,326 | Cub.m |
| 3- Rockfill | 200,000 | Cub.m |
| 4- Clay | 170,210 | Cub.m |
| 5- Coarse filter | 87,000 | Cub.m |
| 6- Fine filter | 93,800 | Cub.m |
| 7- Rip-Rap | 33,000 | Cub.m |
| 8- Bar work | 15,245 | Ton |
| 9- Form work | 97,844 | Sq.m |
| 10- Concrete work | 218,410 | Cub.m |

PAVAN Construction Co.

***Lot 5 and Lot 6 of
Tizh Tizh - Garan Road
and Baghan Tunnel***



PAVAN construction co.



Lot 5 and Lot 6 of TizhTizh-Gharan Road and Baghan Tunnel

(2016 -2021)



Lot 5 and Lot 6 of Tizh Tizh - Garan Road and Baghan Tunnel (Marivan)

PAVAN Construction Co.

Lot 5 and Lot 6 of Tizh Tizh - Garan Road and Baghan Tunnel Project is located in Kurdistan province. The project includes the construction of approximately 10 km paved road and 1,886m tunnel. The project consists of following lots:

1 - Km: 37+500 - 39+508

Construction of paved road with the total length of 2000 m which consists of two 3.65 m lanes, plus two 1.55 m paved shoulders and two 0.3 m unpaved shoulders.

2 - Km: 39+508 - 41+393

Construction of an approximately 1,886m tunnel, which includes two 4.65 m lanes plus two 0.6m sidewalk at the sides.

3 - Km: 41+393 - 42+200

Construction of paved road with the total length of 807 m , which consists of three 3.65-m lanes, plus two 1.55 m paved shoulders and two 0.3 m unpaved shoulders.

4 - Km: 42+200- 42+280

Construction of paved road with the total length of 80 m , which consists of three 3.65-m lanes, plus two 1.35 m paved shoulders and two 1.5 and 0.5 m unpaved shoulders.

5 - Km: 42+280- 43+702

Construction of paved road with the total length of 1422 m , which consists of three 3.65-m lanes, plus two 1.35 m paved shoulders and two 0.5 m unpaved shoulders.

6 - Km: 43+702- 49+300

Construction of paved road with the total length of 5598 m , which consists of two 3.65-m lanes, plus two 1.35 m paved shoulders and two 0.5 m unpaved shoulders.

Major operation activities are :

| | | |
|---------------------------|-----------|-----------|
| 1- Excavation | 1,371,020 | Cub.m |
| 2- Tunnel Excavation | 163,125 | Cub.m |
| 3- Embankment | 588,320 | Cub.m |
| 4- Form work | 84,110 | Sq.m |
| 5- Concrete work | 9,435 | Cub.m |
| 6- Tunnel Lining | 16,410 | Cub.m |
| 7- Foundation digging | 10,570 | Cub.m |
| 8- Steel Frame for Tunnel | 714 | Ton |
| 9- Mesh work in Tunnel | 245 | Ton |
| 10- Bar work | 1,235 | Ton |
| 11- Base Course | 59,965 | Cub.m |
| 12- Prime coat | 147,435 | Kg |
| 13- Tack coat | 131,700 | Kg |
| 14- Asphalt | 1,913,955 | Sq.m - cm |

PAVAN Construction Co.

***Fifth Section of
Khajeh-Varzaghan-Aghababa's
Highway***



PAVAN construction co.

Lot 5 of Khaje- Varzeqan - Aghababa Highway

(2019- _)



Fifth Section of Khajeh-Varzaghan-Aghababa's Highway

PAVAN Construction Co.

The Fifth Section of Khajeh-Varzaghan-Aghababa's highway (from kilometer 50+200 to 61+550) is located in East Azerbaijan province. This project is approximately 11,350 meters length, with the final width of 15 meters. It includes 11 meters of asphalt roads and two gravel shoulders, each with the width of 2 meters. Subgrade construction, base, asphalt, and technical structures are as follows:

1-Road's earth work, subbase, base, and asphalt, including all necessary works to complete its subgrade construction and pavement

2-Construction of valley culverts at station 58+148, including two 6 meters' spans

3-Construction of Varzaghan-Kasan's rural underpass at station 55+455 including an 8 meters' span

4-Overpass Bridge construction on Ahar-chay link-road at station 54+980 including three 10 meters' spans

5-Construction of an underpass structure with the Varzaghan-GovinjehSoltan link-road at station 50+531, including an 8 meters' span

The main volumes of the project are as follows:

| | | |
|---------------------|-----------|---------|
| 1- Excavation Work | 1,531,000 | Cub.m |
| 2- Embankment | 958,400 | Cub.m |
| 3- Form work | 32,681 | Sq.m |
| 4-Concrete Pouring | 22,211 | Cub.m |
| 5-Rebar Tying | 783 | Ton |
| 6-Base Course | 50,564 | Cub.m |
| 7-Prime Coat | 106,099 | Kg |
| 8-Asphalt Binder | 1,822,356 | Sq.m-Cm |
| 9-Asphalted Surface | 1,512,387 | Sq.m-Cm |

PAVAN Construction Co.

***Subgrade construction of the
Fourth Section of Ilam Province
Connection to Country's Railway
Network***



PAVAN construction co.



**Subgrade construction of the Fourth Section of Ilam Province Connection to
Country's Railway Network (2018 - _)**



Subgrade construction of the Fourth Section of Ilam Province Connection to Country's Railway Network

PAVAN Construction Co.

Subgrade construction of the fourth section of Ilam-West EslamAbad has the length of approximately 17 kilometers. This project is located in Kermanshah province and includes the following operations:

- 1-Earth work operations that includes all necessary steps for completing the railway's subgrade construction
- 2-Construction of Sarmast railway station located in Gowawar area with the length of 1200 meters
- 3-Construction of two major bridges with the length of 20 and 30 meters
- 4-Construction of an overpass bridge on the Sarmast city to Chikan village link road
- 5-Construction of crossing structures from the gas pipeline
- 6-Culvert construction with two spans of 5 meters' length
- 7-Construction of tunnel no.1 with the length of 400 meters and executive operations of entry and exit portals with the overall length of 180 meters
- 8-Construction of tunnel no.2 with the length of 1280 meters and executive operations of entry and exit portals with the overall length of 390 meters
- 9-Construction of tunnel no.3 with the length of 2220 meters and executive operations of entry and exit portals with the overall length of 540 meters

The main volumes of the project are as follows:

| | | |
|------------------------------------|-----------|---------|
| 1- Excavation Work | 785,425 | Cub.m |
| 2-Tunnel Excavation | 206,640 | Cub.m |
| 3-Embankment | 762,590 | Cub.m |
| 4-Concrete Forming | 134,335 | Sq.m |
| 5-Concrete Pouring | 34,215 | Cub.m |
| 6-Tunnel Lining | 24,505 | Cub.m |
| 7-Tunnel Framing | 288 | Ton |
| 8-Tunnel Wire Mesh Reinforcing | 991 | Ton |
| 9-Rebar Tying | 2,506 | Ton |
| 10-Shotcrete | 1,355,300 | Sq.m-Cm |
| 11-Stone Work | 6,015 | Cub.m |
| 12-Subballast | 18,200 | Cub.m |
| 13-River Materials(For Embankment) | 19,405 | Cub.m |
| 14-Rockfill | 367,500 | Cub.m |

PAVAN Construction Co.

***Section 4 of Khorramabad-
Poldokhtar axis
(Morani-Poldakhtar border)***



PAVAN construction co.



Section 4 of Khorramabad-Poldokhtar axis (Morani-Poldakhtar border) (2020 - _)



Section 4 of Khorramabad-Poldokhtar axis (Morani-Poldokhtar border)

PAVAN Construction Co.

Khorramabad-Poldokhtar road as part of Ahvaz-Khorramabad transit axis, is one of the main parts of the north-south exchange corridor of Iran. The total length of Khorramabad-Poldokhtar axis is 48 km and the final lot, lot 4, in the area of Morani village to Poldokhtar city, with a length of 12 km, is the subject of this project.

Due to the special location of the project in the impassable mountainous areas of Lorestan province, the project includes the construction of 4 tunnels in the area of Morani and Babazeid villages, a tunnel in Poldokhtar district, and two special bridges.

Construction of 4000 meters length of protective wall in the vicinity of the route with the river is planned in order to protect the route against seasonal floods caused by the rising water level of Kashkan (Karkheh) river. And also in order to cross the intersection of the axis with Babazeid road, the construction of a bridge with ramps and loops is anticipated.

Renovation and improvement of damaged parts of the existing route, caused by devastating flood of the Kashkan River in the early spring of 2019, is one of the main parts of the project.

The main volumes of the project are as follows:

| | | |
|----------------------|---------|---------|
| 1- Excavation Work | 550,000 | Cub.m |
| 2-Foundation Digging | 15,000 | Cub.m |
| 3-Bedding | 60,000 | Sqr.m |
| 4-Embankment | 260,000 | Cub.m |
| 5-Tunnel Excavation | 250,000 | Cub.m |
| 6-Anchor Rod | 20,000 | Meters |
| 7-Pile | 7,000 | Meters |
| 8-Stone Works | 77,000 | Cub.m |
| 9-Form work | 125,000 | Sq.m |
| 10-Rebar Tying | 3,200 | Ton |
| 11-Steel | 1,350 | Ton |
| 12-Concrete Pouring | 75,000 | Cub.m |
| 13-Subbase and base | 63,000 | Cub.m |
| 14-Prime Coat | 130 | Ton |
| 15-Emulsion | 50 | Ton |
| 16-Asphalt Binder | 811,000 | Sq.m-Cm |
| 17-Asphalt Surface | 579,000 | Sq.m-Cm |
| 18-Marking | 37,000 | Meters |
| 19-Geotextiles | 31,000 | Sq.m |

PAVAN CONSTRUCTION COMPANY

***COMPANY'S
EQUIPMENTS &
MACHINERY***

Company's Machinery and Equipments List

PAVAN Construction Co.

| ROW | MACHINE | MODEL | NO |
|-----|-----------------------------|-----------------------------|----|
| 1 | Bulldozer | Komatsu | 8 |
| 2 | Loader | Volvo- Caterpillar- Komatsu | 15 |
| 3 | Hydraulic Excavators | Komatsu | 13 |
| 4 | Truck | Mercedes Benz - Volvo | 60 |
| 5 | Truck Mixer | Mercedes Benz - Volvo | 19 |
| 6 | Grader | Caterpillar-Komatsu | 4 |
| 7 | Soil Compactor | Dynapak | 16 |
| 8 | Dump Truck | Komatsu | 2 |
| 9 | Crane | Tadano - Komatsu- Kato | 12 |
| 10 | Sideboom | Komatsu (D355C) | 1 |
| 11 | Hydraulic Jambo Drill | Tamrock | 3 |
| 12 | Drill Wagon | Tamrock | 2 |
| 13 | Road Header | Tamrock | 1 |
| 14 | Mobile Concrete pump | Mercedes Benz- Iveco | 5 |
| 15 | Water Tank Truck | Mercedes Benz | 5 |
| 16 | Fuel Truck | Mercedes Benz | 4 |
| 17 | Trailer | Volvo- Iveco- Mercedes Benz | 6 |
| 18 | Cement Bunker | Mercedes Benz | 4 |
| 19 | Batching plant | Liebherr | 7 |
| 20 | Stone Crusher & Sand Washer | - | 6 |
| 21 | Cement Silos | - | 12 |
| 22 | Caravan | Mammut | 20 |