



PAVAN construction co.



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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. 3 - Golfam St - Africa Blvd - Tehran - Iran-19156

Tel No :+98-21-22024305 , +98-21-22024335	Managing Director : AHMAD KHARAZI	
Fax No : +98-21-22024249	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	KAVEH SALEH	1.25%	Member of the Board	Civil Eng.	February 1980	1997
4	SAMERAND BABATAHERI	9.20%	Member of the Board	Civil Eng.	September 1997	1997

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

State Emblem

Number: 32014

Islamic Republic of Iran

Date: 18/04/2018

Vice-Presidency for Strategic Planning and Supervision

Contractor's Certificate of Competency

Sir Ahmad Kharazi

Respectable Manager of Pavan construction company

Registration Number: 82893

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 Construction 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

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.

Gholamhossein Mostafavi
Deputy of Strategic Supervision

The present certificate is being valid as of issuing date to end of evaluation term and utmost till 15/04/2022.

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COMPANY'S PROJECTS

Projects were done by Company

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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 Azarbayejan 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 Azarbayejan Regional Water Authority	Ghods Niroo Consulting Engineer Co	Tabriz	49,415,730	July 2012
13	Prepration,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 Transportaion 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

Executorial Experiences - Company's Current Projects

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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	Ghiz Ghale' Si Dam Project (Constructional works and first stage of hydro mechanical instruments)	East Azarbajejan Regional Water Authority	Mahab Ghodss Consulting Engineers Co	Khomarloo	236,341,762	22/07/2019	97%
2	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	40,083,450	13/06/2020	88%
3	Lot 5 of Khaje- Varzeqan - Agha baba Highway	Main Office Of Roads & Urban Development Of East Azarbajejan	Rahab Consulting Engineers Co	Varzeqan	21,642,857	16/10/2021	6%

***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)



Payab Geshlagh's Main Conveyance Canal - Sanandaj

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Including :procurement of all construction equipment and construction , installing,Analayzing and Implement of the Geshlagh 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

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



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



Abas Abad's Interchange Bridges - Tehran

PAVAN Construction Co.

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

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Cultural Complex - Sanandaj



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Cultural Complex - Sanandaj

(2000-2003)



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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

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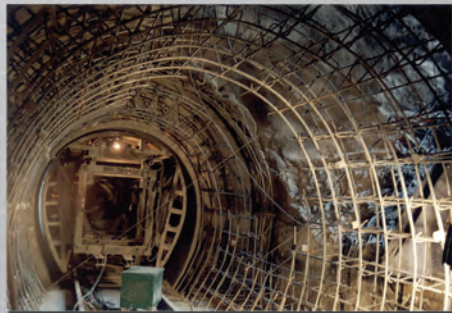
***Water Diversion Tunnel -
Marvak Dam***



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Water Diversion Tunnel - Marvak Dam

(2001-2004)



Water Diversion Tunnel - Marvak Dam

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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)



Wagon Manufacturing Factory - Metro South Terminal - Tehran

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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

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***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

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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

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



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Aidoghmoosh- Water Conveyance Canal and Tunnel - MIYANEH (2005-2009)



Aidoghmoosh - Water Conveyance Canal and Tunnel - MIYANEH

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

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



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Tohid Metro station (E4), And The 1280 meter Tunnel Of Line 4 (2007-2012)



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***



Madani Dam - Tabriz

(2008-2012)



Shahid Madani (VANYAR) Dam & Baghmisheh Road & Airport Road

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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

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



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



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

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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

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



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Miyaneh-Bostanabad-Tabriz Railway Lot 5

(2012-2016)



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)



Khoda Afarin Main Canal and Related Technical buildings

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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

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Ghiz Ghale' Si Dam Project



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Ghiz Ghale' Si Dam Project

(2016 - -)



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 instruments.

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

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



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Lot 5 and Lot 6 of Tizh Tizh - Gharan Road and Baghan Tunnel (2016- -)



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

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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 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