

















WP2.6. Specifications of needed equipment and procurement


Specification of the necessary equipment for the Jizzakh Polytechnic Institute are drawn up and shown below (Offer).

№	Name of the device	FEATURES	IMAGE	LINK
Hardware				
	VU CAM Color Camera	Adjustable focal length and focus • NEMA-6P, Enclosure • Internal heater • Fully adjustable mounting hardware with 1-1/2" coupling (not shown) • NEMA 4, 4X junction box for camera power, video, and zoom lens control-wiring (not shown) • Sony Lens and Camera with 1/4-type EX view HAD CCD • Aigis Housing and Sunshield		http://www.its-products.com/wp-content/themes/itsprod/pdf/VU-CAM-Color-Camera.pdf
	VU1 and VU2 - version V3.34	Software for VU CAM Color Camera		http://www.its-products.com/wp-content/themes/itsprod/pdf/vu.pdf
	Video BIU for TS2	DIMENSIONS • TS-2 compatible card rack units INPUTS • 64 Detector Inputs via Traficon VU Protocol CONNECTOR • Double row 22 pins EDGE POWER SUPPLY & CONSUMPTION • 18-26 VCD·200 mA • Can be Inserted with Power Applied ENVIRONMENTAL • -29° F to +165° F (-34° C to +74°C) • 0 to 95% relative humidity—non-condensing BIU SELECTION SWITCHES • Selects TS2 Detector BIUs to emulate • Operates as 1 to 4 BIUs simultaneously PORT 1 SPECIFICATIONS		http://www.its-products.com/wp-content/themes/itsprod/pdf/Video-BIU-for-TS2.pdf
	VU1 and VU 2 Vehicle Presence and Data Detector	Field Proven Presence detection • Field Proven Data acquisition • Direct plug-in module for NEMA TS-1 & TS-2 and Type 2070 controller cabinets • VU 2 is a 2-camera unit • 24 outputs and 20 inputs via expansion modules or VU BIU • System connection via VU COM (Ethernet) • VIP Link Software via serial communication RS232 • Real-time		http://www.its-products.com/wp-content/themes/itsprod/pdf/Single-and-dual-channel-video-processor.pdf

		video output on module • Data storage on board		
	Ethernet Communications Module (VU COM)	Remote monitoring of the VIP boards. Up to 6 cameras for VU 1 and 12 cameras for VU 2. • Video sequence with pre- and post incident information. • Password protected, remote set-up or modification of configuration parameters. • Ethernet communication (IP addressable) AND RS232 communication on the same board.		http://www.its-products.com/wp-content/themes/itsprod/pdf/Ethernet-Communications-Module-VU-COM.pdf
	MC 682 Solar MicroCabb Controller	SOLAR POWERED Operates on 10.5 to 15.0 VDC. COMPACT CONSTRUCTION The MC 682-SOLAR contains only three printed circuit boards which include the CPU board, the conflict monitor board, and the output triac board. CONFLICT MONITOR Detects any full- or half-wave conflicts occurring on the Green, Yellow, or Walk outputs. A watchdog signal is monitored for malfunctions in the microprocessor.		http://www.its-products.com/wp-content/themes/itsprod/pdf/MC-682-Solar-MicroCabb-Controller.pdf
	2070-1B Modules 2070 Controllers	The 2070-1B CPU Module meets all the latest requirements of the Caltrans TEES specifications • Key Features: – Ethernet port – Standardized data key port • Status LEDS are easily visible for the Ethernet Port		http://www.its-products.com/wp-content/themes/itsprod/pdf/2070-1B.pdf
	2070LN ITS Controller	The 2070LN bridges the gap between NEMA TS-2 and CALTRANS 170E controllers by providing full I/O capability with NEMA using the TS-1 "A", "B", "C", and "D" connectors and with Type 170E cabinets using I/O connectors defined in the CALTRANS specifications. The NTCIP protocol ensures that the 2070LN is fully compatible with ATMS applications at the communications level.		http://www.its-products.com/wp-content/themes/itsprod/pdf/2070LN-ITS-Controller.pdf
	NEMA TS-2 Type 1	Voltage: 89 to 135 VAC 60 HZ Power: 25 to 80 Watts Temperature: -35° F to 165° F (-37° C to +74° C)		http://www.its-products.com/wp-content/themes/itsprod/pdf/NEMA-TS-2-Type-1.pdf

	and TS-2 Type 2	Dimensions: Height: 10” Width: 17” Depth: 10.75” Humidity 0 to 95 percent		prod/pdf/ATC-Traffic-Controller.pdf
	Model 980 ATC Traffic Control ler with Ethernet & USB	The Series 900 Controller is easily configured to various firmware versions through the utilization of Flash File System, which eliminates the need for obsolete EPROM technology. A complete traffic controller firmware update requires only seconds. No hardware changes or EPROM replacements are required. MASTER/ SECONDARY Operation in a Closed Loop System requires only one Series 900 Controller to be located at the master cabinet. Both the master and secondary functions are simultaneously provided by a single controller. DISPLAY A backlit, 8-line by 40-character LCD display provides full-menu screens for eased data entry. Optimum contrast and brightness are automatically maintained by temperature-compensating circuitry. The menu-driven format and context sensitive help screens eliminate the need for special codes or front panel identification characters.		http://www.its-products.com/wp-content/themes/its-prod/pdf/980-ATC-Traffic-Controller-with-Ethernet-USB.pdf
	NEMA M Pole- Mount Traffic Control Cabinet	Meets NEMA standards • Pole mounted • Constructed of 0.125” thick aluminum • “C” mounting channels on side and back walls for mounting shelves and panels • 3-point latching mechanism of zinc plated steel • Stainless steel door handle designed for padlock • Stainless steel door hinge, continuous or optional three (3) hinge arrangement		http://www.its-products.com/wp-content/themes/its-prod/pdf/NEMA-M-Pole-Mount-Traffic-Control-Cabinet.pdf

	8" Aluminum Traffic Signal Head	<p>Heavy-duty die-cast aluminum alloy • One-piece, completely weather-proof housing with hinged door • “Building block” configuration for total interchangeability • Allows coupling with 12-inch signals • Lenses available in polycarbonate or glass • Wing-nuts allow tool-free maintenance • Accepts standard visors and backplates • Accepts 60-150 watt incandescent bulbs or LEDs</p>		http://www.its-products.com/wp-content/themes/itsprod/pdf/Trafficware%208-Inch-Aluminum-Traffic-Signal-Head1.pdf
Software				
	Geographic information system software ArcGIS	<p>ArcGIS is a geographic information system (GIS) for working with maps and geographic information. It is used for creating and using maps, compiling geographic data, analyzing mapped information, sharing and discovering geographic information, using maps and geographic information in a range of applications, and managing geographic information in a database.</p>		https://www.arcgis.com/index.html
	PTV VISSIM Simulation Tool and PTV VISSUM	<p>PTV Vissim is a microscopic multi-modal traffic flow simulation software package developed by PTV Planung Transport Verkehr AG in Karlsruhe, Germany. The name is derived from "Verkehr In Städten - SIMulationsmodell". PTV Vissim was first developed in 1992 and is today a global market leader</p>		http://vision-traffic.ptvgroup.com/en-us/products/ptv-vissim/
	Software for delivery vehicle route optimization OPTiRUT			https://optimoroute.com/
	TRANSYT	<p>TRANSYT- is a traffic simulation and signal timing optimization program. The primary application of TRANSYT-7F is signal timing</p>		https://trlsoftware.com/products/junction-signal-design/transyt/

		<p>design and optimization.</p> <p>TRANSYT-7F features genetic algorithm optimization of cycle length, phasing sequence, splits, and offsets</p>		
	MATLAB	<p>MATLAB (matrix laboratory) is a multi-paradigm numerical computing environment and proprietary programming language developed by MathWorks. MATLAB allows matrix manipulations, plotting of functions and data, implementation of algorithms, creation of user interfaces, and interfacing with programs written in other languages, including C, C++, C#, Java, Fortran and Python.</p>		<p>https://www.mathworks.com/products/matlab.html</p>

List of laboratory equipment purchased by Jizzakh Polytechnic Institute

Приложение № 1 от 10.04.2019г. к КОНТРАКТУ на поставку товара № Т-031/19 от 10.04.2019г

Appendix № 1 from 10.04.2019 to the CONTRACT for the delivery of the goods № Т-031/19 from 10.04.2019

№	Наименование	код ТН ВЭД	Ед. изм.	Кол-во	Цена EUR	Сумма EUR	Производитель	Страна происхождения
No.	Description	HS CODE	unit	Q-ty	PRICE EUR	AMOUNT EUR	PRODUCER	Country of Origin
1	Interactive Touch Display 65" IIYAMA TE6503MIS-B1AG • 3840 x 2160 (4K UHD) • 20-point Multi-touch • Ethernet LAN 10/100Mbps • Internal Speakers 10W x 2 • Interactive annotation tools and applications to browse the Internet, show documents, presentations, video	8471410000	PCs	1	3 241,00	3 241,00	IIYAMA	EU/ China/ Japan
2	Wall mount for interactive display	8302419000	PCs	1	210,00	210,00	IIYAMA	EU/ China/ Japan
3	Projector Optoma W340 • WXGA (1280 x 800) • 3400 ANSI Lumen • 20,000:1 Contrast ratio	8528699000	PCs	2	817,00	1 634,00	OPTOMA	EU/ China/ Japan
4	HP Color LaserJet Pro MFP M281fdw	8443312000	PCs	1	475,00	475,00	HP Inc.	EU/ China/ Japan
5	Personal Computer HP 290 G2 Microtower PC • Intel Core i5-8500 (3,0GHz, 9MB cache, 6 cores) • 4GB DDR4 • 1TB SATA HDD • Slim DVD-Writer • Integrated Gigabit Ethernet • Keyboard and optical mouse • In set: Monitor 20,7" HP V214a	8471500000	PCs	6	943,00	5 658,00	HP Inc.	EU/ China/ Japan
6	Notebook HP ProBook 450 G6 • Intel Core i5- 8265U (1,6-3,9GHz, 6MB cache, 4 cores) • 8GB DDR4 RAM • 1TB HDD • DVD-RW Drive • 15,6" HD screen • Wi-Fi, Bluetooth • HD Webcam	8471300000	PCs	2	991,00	1 982,00	HP Inc.	EU/ China/ Japan
Общая сумма:					€	13 200,00		
TOTAL AMOUNT:								

13.200,00 (Тринадцать тысяч двести Евро, 00 евро центов)

13,200.00 (Thirteen thousand and two hundred Euros, 00 euro cents)

CIP-Tashkent (ИНКОТЕРМС 2010)
CIP-Tashkent (INCOTERMS 2010)

Срок поставки не позднее 60 (шестьдесят рабочих дней) с момента поступления предоплаты на счет Поставщика
Delivery time-within 60 (Sixty working days) from the date of receipt of advance payment on account of the Supplier

ПОКУПАТЕЛЬ

THE BUYER:

Jizzakh Polytechnic Institute
Address: 4, Islam Karimov Avenue, Jizzakh, 30900, Uzbekistan
Джизакский Политехнический Институт
Адрес: Узбекистан, г. Джизак, 30100, проспект Ислама Каримова, 4

ПОКУПАТЕЛЬ

BUYER



ПОСТАВЩИК

THE SUPPLIER:

«TITAN GROUP FZE»
Address: P.O.Box: 327900 Ras Al Khaimah, UAE
«TITAN GROUP FZE»
Адрес: P.O.Box: 327900 Ras Al Khaimah, UAE

ПОСТАВЩИК

SUPPLIER





Address: P.O.Box: 327900 Ras Al Khaimah, UAE
 Banking details:
 Bank name: National Bank of Ras Al Khaimah
 IBAN: AE16 0400 0083 4224 1148 902
 Swift code: NRAKAEAK

INVOICE NO. T-033

BILL TO: Jizzakh Polytechnic Institute Address: 4, Islam Karimov avenue Jizzakh 130100 Uzbekistan	DELIVERY Uzbekistan
INVOICE DATE	June 7, 2019
DELIVERY TERMS	CIP Tashkent

NO	DESCRIPTION	Q-TY	PRICE, EURO	AMOUNT, EURO
1	Interactive Touch Display 65" IIYAMA TE6503MIS-BIAG • 3840 x 2160 (4K UHD) • 20-point Multi-touch • Ethernet LAN 10/100Mbps • Internal Speakers 10W x 2 • Interactive annotation tools and applications to browse the Internet, show documents, presentations, video	1	3,241.00	3,241.00
2	Wall mount for interactive display	1	210.00	210.00
3	Projector Optoma W340 • WXGA (1280 x 800) • 3400 ANSI Lumen • 20,000:1 Contrast ratio	2	817.00	1,634.00
4	HP Color LaserJet Pro MFP M281fdw	1	475.00	475.00
5	Personal Computer HP 290 G2 Microtower PC • Intel Core i5-8500 (3,0GHz, 9MB cache, 6 cores) • 4GB DDR4 • 1TB SATA HDD • Slim DVD-Writer • Integrated Gigabit Ethernet • Keyboard and optical mouse • In set: Monitor 20,7" HP V214a	6	943.00	5,658.00

7	Notebook HP ProBook 450 G6 <ul style="list-style-type: none"> • Intel Core i5- 8265U (1,6-3,9GHz, 6MB cache, 4 cores) • 8GB DDR4 RAM • 1TB HDD • DVD-RW Drive • 15,6" HD screen • Wi-Fi, Bluetooth • HD Webcam 	2	991.00	1,982.00
TOTAL AMOUNT, EURO WITHOUT VAT				13,200.00

TOTAL AMOUNT: 13,200.00 (Thirteen thousand and two hundred) EURO without VAT.

PAYMENT TERMS: 70% (seventy per cent) advanced payment.

AMOUNT TO BE PAID: 9,240.00 (Nine thousand two hundred and forty Euro) without VAT.

DELIVERY PERIOD: 120 (One hundred and twenty) working days upon receiving of advanced payment.

Banking Details:

Beneficiary:	Titan Group FZE
Address:	P.O.Box: 327900 Ras Al Khaimah, UAE
Bank Name:	National Bank of Ras Al Khaimah
IBAN:	AE16 0400 0083 4224 1148 902
SWIFT Code:	NRAK AEAK

Vice President
Gopal Prasad Kandel

