

UNIVERSITY OF NISH
FACULTY OF ELECTRONIC ENGINEERING
IN NISH

TENDER DOCUMENTATION

DELIVERY OF COMPUTER EQUIPMENT, MEASURING-
ACQUISITION AND DEVELOPMENT EQUIPMENT FOR THE
NEEDS OF THE PROJECT TEMPUS- JEP 41107

You are reading the translation of the original document written in Serbian. The original text was prepared by Zoran Jovanovich a staff member of the Faculty of Electronic Engineering appointed by the Dean of the faculty. The translation was done by Prof. Vancho Litovski member of the TEMPUS JEP 41107 team. This document is conceptually fundamentally different with what was delivered on June 20, 2008, by prof. Litovski to the Dean of the faculty while asking the tender to be published.

Translated in Nish on November 28, 2008.

Nish, on the year 2008.

Based on articles 69, 70. и 72. of the Low of public purchase (Official Journal of Republic of Serbia No. 39/02, 43/03, 55/04 and 101/05)

**THE UNIVERSITY OF NISH,
THE FACULTY OF ELECTRONIC ENGINEERING IN
NISH**

18000 Nish, Aleksandra Medvedeva 14

**announces
A PUBLIC CALL**

For collecting offers in an open procedure for purchase of goods

Subject of the purchase is computer, measurement-acquisition and development equipment for the needs of realization of the project TEMPUS- JEP 41107 at the faculty of Electronic Engineering in Nish as follows:

Part 1 – Computer equipment, simulation engine with additional storage system

Part 2 – Measurement - acquisition equipment

Part 3– Rest of the equipment: video, measurement, development surrounding, material for the student exercise boards and components for testing integrated circuits

The total value by separate parties 1, 2 and 3 is maximum 54.830,00 Euro in RSD.

Rights to take part are given to all physical and legal entities that are registered for businesses that are subject of this public purchase and satisfy the conditions from paragraphs 45. and 46. of the law of public purchase (Official Journal of Republic of Serbia No. 39/02, 43/03, 55/04 and 101/05).

The offer are to be delivered personally or by post in closed envelopes labeled "Offer for public purchase of goods" to the address of the Faculty of Electronic Engineering in Nish, Aleksandra Medvedeva street, No. 14, 18000 Nish. At the backside of the envelope one should mark the name of the offerer, its address, its telephone, and name of the contact person.

The tender docummentation may be taken in time limit of 15 days starting with the day of the publishing of this Call in the (Official Journal of Republic of Serbia, at the Faculty of Electronic Engineering having an authorization letter and proof of payment of 6.000,00 RSD, to the account of the Faculty of Electronic Engineering No. 840-1721666-89. The paid in advance money may not be refunded, while the Tender documentation may not be taken after the mentioned time limit.

The offer is due to be valid for 60 days starting with the day of application.

The time-limit for delivery of applications is 30 day starting with the day when the Tender was published in the Official Journal of Republic of Serbia, the latest up to 12 o'clock of the last day of the time-limit no matter the way how the applications were sent.

Public opening of the applications will be on the next day of the time limit for application at 12 o'clock, at the Faculty of Electronic Engineering in Nish (room 104 in the dean's office).

The offer for every Part separately must be an original on the form get from the Faculty, clear, unambiguous, complete, typed clearly and signed and sealed by an authorized person. All documents that are ammended to the application must be originals or verified copies not older than 6 months. The price must be expressed in DRS without VAT and is obligatory for the applicant within the time frame of the offer.

Based on the applications delivered , a qualified commision of the Faculty of Electronic Engineerin will select the best offerer while applying the following criteria:

- Technical characteristics and quality 60 points,
- Best price 30 point, and
- Certified service 10 points.

The quantities will be defined by a contract.

In case of inoportune offers the Orderer keeps its right to decide to give the contract for the public purchase for one or all Parts that are subject of the Tender. In

the case the price is unusually low the commission that will be appointed by the Orderer will ask the oferrer to give explanation according to paragraph 57. of the Low of public purchase.

Incomplete, not sealed and not timely applications will not be considered.

Contact person is: Marko Dimitrijevič MSc, room 321, phone 018/ 529-321.

INSTRUCTIONS

FOR FILLING THE FORM AND PROVING THE QUALIFICATION

In **item 1** write in the full name of the offerer

In **item 2**. write in the place and postal code

In **item 3**. write in the business account number

In **item 4**. write in the appropriate form of organization according to the Law of business societies (e.g. action capital society, society with limited responsibility and similar)

In **item 5**. write in the appropriate form of the ownership (e.g. state owned, private, mixed,...)

In **item 6**. write in the company number from the register delivered by the authority for statistics

In **item 7**. write in the registration number given by the authority for registration

In **item 8**. write in the code of the main activity from the register of the appropriate authority

In **item 9**. write in the number, date, and the name of the authority that issued the allowance and amend the allowance of the appropriate authority that is keeping books on the issued allowances for performing the appropriate activities

In **item 10**. give an appropriate response and amend a certificate of the authorized court or register of the appropriate authority that keeps record on the sanctions issued (not older than 6 months)

In **item 11**. give an appropriate answer and amend a certificate, i.e. extract of the court register, or the Agency for business registers or other authority that is keeping books on registration (not older than 6 months)

In **item 12**. amend a certificate from the appropriate tax authority (not older than 6 months)

In **item 13**. give an appropriate answer

In **item 14**. give a list of some biggest buyers

In **item 15**. describe the technical capabilities

In **item 16**. list the capabilities and capacities

In **item 17**. list the standard and amend certificates

In **item 18**. amend photographs, give a detailed description or reference to an appropriate web-site

In **item 19**. amend certificates

In **item 20**. amend an verified photocopy of the income sheet statement for the previous three years

In **item 21**. write in the number of employed persons

In **item 22**. write in the number of employed persons

In **item 23**. give the names of persons

In **item 24**. list the time limits of the delivery from the Offer

In **item 25**. give information on whether a servicing network is in work and list the authorized services with their addresses and telephone numbers

In **item 26**. list the technical and technological advantages with respect to the usual standards

In **item 27**. list the liabilities that can be taken by the offerer in provision of spare parts including information on the ways, time frames, and conditions.

In **item 28**. list the warranty period for any separate item of the equipment

In **item 29**. list the conditions of payment from the offer

In **item 30**. give the name, family name and the function of the person that filled in the questionnaire.

In **item 31**. give the name, family name and the function of the person representing the offerer

A FORM FOR ESTABLISHING THE QUALIFICATION

1.	Company	
2.	Address	
3.	Bank account	
4.	Form of organization	
5.	Form of ownership	
6.	Company Number	
7.	Registration Number	
8.	Cipher of the activity / main activity	
9.	Allowance of the appropriate authority for doing the activity that is subject of this public purchase	
10.	Proof that against the offerer in the last two years was not issued a valid court or administrative sentence that forbids the offerer to do activities related to the subject of this public purchase	
11.	Proof that the offerer did not stop working based on court or administrative sentence or that he is not deleted from the register of the appropriate authority	
12.	Proof that the offerer acquitted all taxes and public duties in accordance with the running laws	
13.	Did the offerer delivered goods that are subject of this tender	
14.	Give a list of buyers	
15.	A short description of the technical accomplishment	
16.	Capacities for research and development	
17.	Measures undertaken for quality assurance (JUS, ISO 9000 or other standards)	
18.	Possession of description, samples or photographs of the product	
19.	Possession of certificate given by authorized organ or organization for quality control that the offered goods are in accordance with the ruling standards	
20.	income sheet statement for the previous three years	
21.	the number of employed persons	
22.	Number of technical and expert persons that will be responsible for the realization of the contract	
23.	Persons responsible for quality control	
24.	Delivery time limits	

25.	Servicing after delivery	
26.	Technical and technological advantages	
27.	Liability in assurance spare parts	
28.	Warranty period	
29.	Payment conditions	
30.	The form filled by	
31.	Responsible person	

Form filled by:

P.S..

Responsible person:

PART I

Computer equipment, simulation engine with additional equipment and storage system of the NAS type with software for host management for the realization of the project TEMPUS-JEP 41107

Subject of the purchase are specified goods and appropriate warranties.

The offerer is due to offer equipment without VAT, while The Faculty of Electronic Engineering takes the duty to issue a certificate for tax acquittal.

REQUIREMENT:

- Time frame and way of payment 60% after delivery, 40 % after establishment of compatibility with the equipment listed in Part 2.
- Time frame of delivery is 30 days.
- Warranties are 3 years
- Maximum total price is 23300 EURO in RSD counter value

SPECIFICATION OF THE GOODS

Compulsory requirement		Quanti.	Additional offer		
Personal computer of type -A		8			
processor	No. Of cores 2				
	Working frequency 2GHz min.				
	Capacity L2-Cache 2MB minimum				
	Nominal speed FSB 800MHz min.				
Memory	DDRII 1 x 1GB, min 667MHz, by the model and type to be original component of the producer of the computer		2GB +1 point	4GB +2 points	
Hard disk	SATA 160GB 5400rpm, by the model and type to be original component of the producer of the computer		until 250GB: +1point	250GB and more: +2 points	
DVD reader/writer	DVD, SATA, OEM, in original configuration of the producer		DVD- RW DL + 1point		
LAN	1000Mbps				
mouse	optical min. One weels, OEM of original configuration of the producer				
keyboard	PS/2 or USB, OEM original configuration of the producer, standard distribution of the keys.				
Monitor	The same trade mark as the computer, the same colour of the shassis as the computer, TFT 19" wide, maks resolution min. 1440x900,800:1,300cd, declasssed hor./ver. Viewing angle 165°min/160°min.		22" +1point		

Grafic board	PCI-E, with producers declassified hardware support for DirectX 10				
Personal computer of type -B		1			
processor	No. Of cores 2		4 cores +2 points		
	Working frequency 2.4GHz min.				
	Capacity L2-Cache 2MB minimum				
	Nominal speed FSB 800MHz min.				
Memory	DDRII 2 x 2GB, min 667MHz, by the model and type to be original component of the producer of the computer				
Hard disk	SATA 360GB 7200rpm, by the model and type to be original component of the producer of the computer		Up to 500GB: +1 point	500GB and more: +2 points	
DVD reader/writer	DVD-RW DL, SATA, OEM, in original configuration of the producer				
LAN	1000Mbps				
Mouse	optical min. One weels, OEM of original configuration of the producer				
keyboard	PS/2 or USB, OEM original configuration of the producer, standard distribution of the keys.				
Monitor	The same trade mark as the computer, the same colour of the shassis as the computer, TFT 19" wide, maks resolution min. 1440x900,800:1,300cd, declassified hor./ver. Viewing angle 165°min/160°min		22" +1 point		
Grafic board	PCI-E, with producers declassified hardware support for DirectX 10				
Networking equipment					
Network cable	UTP cable of category 6	200m			
Socket	Wall mounted network socket category 6	16 pieces			
Patch panel with sockets	16 port panel category 6	1piece			
Patch cable	Patch kabl cat. 6 3m long	16 pieces			
Patch kabl	Patch kabl cat. 6 1m long	16 pieces			
Router/fire wall	Ruter/firewall with a min. 2 100Mb/s Ethernet port with characteristicssimilar to Cisco 1800	1piece			
Switch	Network switch with 16 socket places 10/100Mb/s and 2 x 1GB Uplink ports	1piece	All 1GB/s ports +4 points		
Mobile work station – notebook		1			
Dimensions					
	Shape	Notebook	element of protection against physical		

			damage within the casing and on the backside of the primary screen (made out of metal or alloy) + a system for protection of the disc against stresses (or solid state disc) + 2 points			
	Diagonal of the screen	15-15.4"				
	Weight (with battery without the charger)	max. 3.3kg	>2.70: +0.5 points	≥2.50: +1point	<2.50: +2 points	
Graphical subsystem						
	Declared maximum resolution of the primary screen	1280x800 (WXGA)	1680x1050 (WSXGA+) or larger: +3points			
	Support for external screen	yes				
	Type of the graphical subsystem	PCIExpress				
	Graphic processor	nVidia Quadro NVS 140M				
	Video memory	128MB separate memory				
CPU						
	Producer	Intel				
	Number of cores	min. 2				
	Declared working frequency	min. 2GHz	>2.2 GHz: +0.5 points	>2.5 GHz: +1points		
	Size of the L2 Cache	min. 3MB				
	Declared frequency FSB	min. 800MHz				
RAM						
	Type	DDR2 SDRAM 667MHz min.				
	Capacity	2GB in one slot, by type, type and producer original memory implemented by the producer of the computer				
Disc						
	Type	SATA	built in memory for caching the content of the disc min. capacity 1GB: +2 points			
	Capacity	min. 160GB				
	Rotation speed	min. 5.400rpm				
Optical equipment						
	Type	DVD Recorder (Dual				

		Layer), min 16x				
Communication						
	LAN	integrated, 10/100/1000Mbps, RJ45				
	Modem	integrated 56Kbps, RJ11				
	wireless communication	integrated b/g/draft n 802.11	support to 802.11a standard: +1points			
	Bluetooth	yes, integrated				
	Firewire (IEEE 1394)	yes, integrated				
	USB	min. 3 pieces, integrated				
	rest of the ports	Line-In, Line-Out, integrated card reader of the SD type				
Battery		Li-Ion or Li-polimer, 6 cells min.				
Producer declared noise level		-	>42dB: 0 points	>38dB: +1 point	>35dB: +2 points	35dB ili manje: +3 points
Printer, scanner, copier		LAN interface, two side (duplex) printing, ADF	colour printer +3points			

Node for the simulation engine

No. of pieces that are purchased: **4**

	compulsory requirements	Additional offer		
Processor	number of processors per node 4			
	Type Intel Xeon QuadCore			
	working frequency 2.33GHz minimum	2.4GHz +3points	More than 2.4GHz +6points	
	capacity of L2-Cache 12MB minimum minimal speed FSB 1333MHz min.			
Memory	DDRII 4 x 2GB, min 667MHz, by model and type of the original component of the computer producer	4x4GB +5points		
		More than 667MHz +5points		
Hard disc	SATA 160GB 7200rpm, by model and type of the original component of the computer producer	up to 250GB: +1 points	up to 500GB: +2 points	more than 500GB +4 points
DVD reader/writer	DVD, SATA, OEM, by model and type of the original component of the computer producer			
LAN	2x1000Mbps			
graphic card	integrated			
Casing	1U, 19" for mounting in a rack			

Networking equipment, cabinet, rack, UPS and additional equipment for the simulation engine.

The number of pieced purchased are listed within the following table

	compulsory requirements	quant.	Additional offer		
Cabine	Cabin for temperature control and audio isolation of the simulation engine witha system for cooling	1			
Rack	Type: Stand-alone (on the floor), dimensions 19“, hight 42U	1			
	Cooling: 2 ventilators 100mm minimum				
	Power strip: 8 sockets minimum				
	Rest of the parts for completion				
UPS	Aparatus for uninterupted power supply 3kW for mounting within a rack of 19“	1	5kW +3points		
Patch panel	24 portn patch panel with sockets (full) category 6	1			
UTP patch cable	UTP patch cable 3m long category 6	8			
UTP patch cable	UTP patch cable 5m long category 6	16			
Switch	24 portn 1GB/s switch (all ports 1GB/s), switching capacity minimum 24 Gbps	1			
KVM Switch	8-portn KVM Switch	1			
Mouse	optical, min. One wheel, PS/2 or USB according to the specifications of the KVM switch	1			
Keyboard	PS/2 or USB according to the specifications of the KVM switch , standard set of basic keys	1			
Monitor	TFT 19"wide, max. resolution min. 1440x900,800:1,300cd, declared hor./ver. Angle of visibility 165°min/160°min. For built in a rack	1	22" +1poit		

Storage system of theNAS type with host management software

No. of pieces that are purchased: 1

Category	description	Characteristics	additional offer	
RAID				
	Controler	Dual active		
	Levels	RAID 0,1,3,5,10		
Host interface				
	Type	SATA II or iSCSI	SATA II 0 points	iSCSI +2points
	No. Of controllers	2		
	No. Of hosts per controller	min 2		
Drive				
	Interface	SAS		
	Support	SAS and SATA		
Storage				
	Total no. Of places for discs	4 min	6 diska +2points	
	Type of discs	SATA II or SAS	SATA II 0 points	SAS +2 points
	No. of installed discs	3 min.		
	Capacity of the installed discs	1.5 TB min.		
Management software		yes		
Shape and dimensions of the casing		rack mountable 19", max. 2U		
waranty		3 years min		

Requirements:

While choosing the offerer only complete offers will be taken into account i.e. only offers containing all the required equipment and material according to the specifications an the compulsory requirements. Additional offer is not compulsory but it may bring more points during the choice of the best offerer.

The offerer is due to prove the compliance of the technical requirements by providing excerpt from the original documentation or by providing the internet address of the producer of the equipment. One should give data related to the producer, type, model, and all other relevant data needed for unambiguous determination of the characteristics of the offered equipment. If the internet address of the producer is given one is to deliver a printed content of the web page where the information can be found.

Requirements whose fulfillment is not explained in the way described above will be considered unfulfilled. The orderer is not due to ask additional explanation of the application.

Origin of the equipment

The personal computer of type A and B belonging to Part 1 as well as the mobile work station must be produced by renowned producers of personal computers (DELL, HP, IBM, LENOVO, ACER, MSI, and SIEMENS).

The configuration of nodes for the simulation engine: part of the offer should be the schematic of connection of nodes being part of the position with storage system including the specification for the equipment needed and cables for connection. The nodes and the storage system need to be connected so that to perform as unique functional integrity. In addition, one needs to provide all needed cables and equipment according to the schematic of connectivity. The minimal configuration of connectivity that is to be enabled is use of one channel without redundancy.

Time limit for delivery: the offerer is due to provide for a delivery time limit not more than 30 days starting from the day of signing the contract.

Warranty period: The minimal warranty period that is to be provided by the offerer is 3 years.

Price: The price of the party isn't allowed to go over 23.300,00 EURO in RSD counter value.

The way of marking (giving points)

A contract for delivery of the specified equipment will be offered to the offerer who by the procedure of marking gets the largest number of points. In the case that two or more offerers get the same number of points advantage will be given to the one that offers lower price.

The maximal number of points that an offerer may get is 100.

The points are given to the offerer based on the offered price, technical characteristics, and the authorized service in Nish:

$$P = P_{\text{price}} + P_{\text{quality}} + P_{\text{service}}$$

The maximum number of point given based on the offered price is 30, while the number of point based on the offered price for every separate offer is calculated according to the following formula:

$$P_{\text{price}} = 30 \times \frac{\text{the min. price offered for the party}}{\text{the offered price}}$$

The maximal number of points based on technical characteristics and quality is 60 and the number of points for every separate offer is got by adding the appropriate points for every maximally fulfilled additional offer from the table in the column **Additional offer**.

Maximal number of points for authorized service on the territory of the town of Nish is 10 points. This number of points is given only if authorized service established before the publishing of this Public call , a proof being provided.

Offered configuration for a personal computer of the type A

PROCESSOR	Number of cores
	working frequency Hz
	capacity L2-Cache
	nominal speed FSB.
MEMORY	
Hard disc	
Graphic card	
DVD reader/writer	
mouse	
Keyboard	
MONITOR	

Offered configuration for a personal computer of the type B

PROCESSOR	Number of cores
	working frequency Hz
	capacity L2-Cache
	nominal speed FSB.
housing	
MEMORY	
Hard disc	
Graphic card	
DVD reader/writer	
mouse	
Keyboard	
MONITOR	

Offered configuration for the mobile working station - notebook

PROCESSOR	Number of cores
	working frequency Hz
	capacity L2-Cache
	nominal speed FSB.
MEMORY	
Hard disc	
Graphic card	
DVD reader/writer	
Optical equipment	
Communication	
Noise level	
Dimensions	
Battery	

Offered configuration for the printer/scanner/copier

Printer/scanner/copier	
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Offered configuration for a node of the simulation engine

Processor	Number of processors per node
	Type
	working frequency
	capacity L2-Cache
	nominal speed
Memory	
Hard disc	
DVD reader/writer	
LAN	
Graphic card	
Housing	

Offered configuration for the *storage* system of the NAS type with *host management* software

RAID	
	Controller
	Levels
Host interface	
	Type
	Number of controllers
	Number of hosts per controller
Drive	
	Interface
	Support
Storage	
	Total number of places on the discs
	Type of discs
	Number of discs installed
	Capacity of the disc installed
Management software	
Shape and dimensions of the housing	

Name of the offerer

Authorized person of the offerer

P.S.

OFFER
ACCORDING TO THE PUBLIC PURCHASE OF GOODS
- PART I -

Number of the offer:

Date:

According to the call that you published in Official Journal of Republic of Serbia No. 107/2008, on 21. November 2008. we deliver an offer for the following equipment:

No.	Name	Unity price (only for computers) without VAT
1	Personal computer of the type A	
2	Personal computer of the type B	
3	Mobile working station–notebook	
4	Printer/copier/scanner	
5	Networking equipment	

No.	Name	Total price in RSD without VAT
6	Node for the simulation engine	
7	Networking equipment, cabinet, rack, UPS and additional equipment for the simulation engine	
8	<i>Storage system</i>	
Total (1, 2, 3, 4, 5, 6, 7, 8):		

Commercial and technical conditions of the offer:

- Time limit of payment: 60% after delivery, 40% after establishment of compatibility of equipment named in Part 2.
- Validity of the offer: 60 days starting of the day of application
- Delivery time limit: 30 after signing the contract
- Warranties: 3 years
- Maximal price 23300 EURO in RSD counter value
- Place of delivery: Faculty of electronic engineering Nish

Authorized person
P.S.

Offerer:

Statement of fulfillment of the conditions of the Call

I do confirm that the following requirements are fulfilled	Yes	No
Compulsory technical requirements of the offered equipment		
Compulsory requirements related to the origin of the equipment, warranty period and time limit of delivery		
Offered all parts of the equipment that are required		
I here declare that all time limits and conditions required by the Call and the appropriate documentation will be respected.	Signed and sealed	
Director (name):		

CONTRACT

Of public purchase of goods

Signed on _____, 2008. in Nish between:

1. FACULTY OF ELECTRONIC ENGINEERING IN NISH, Aleksandra Medvedeva str. No. 14, represented by the dean, prof. Dr. Dragan Antich (in the rest of this document the orderer), on one side and
2. _____ (name and address of the Offerer), represented by Director _____ (in the rest of this document : The Offerer), on the other side.

1. SUBJECT OF THE CONTRACT

Paragraph 1.

In the procedure of public purchase of goods that is conducted according to the Law of public purchase, after the public Call published in the Official Journal Of Republic Of Serbia No. 107/2008, of 21. November 2008. as the most convenient offerer _____ was chosen, so that to that offerer so that that offerer is allotted a contract of public purchase of goods..

Subject of the Contract is purchase of equipment for the needs of the realization of the project TEMPUS JEP 41107 (Part I) at the Faculty of Electronic Engineering in Nish, in all in accordance to the offer No. _____ of _____, 2008.

The offerer is guarantying that the equipment that is subject of this contract possesses technical characteristics and fulfills technical requirements and standards foreseen in the tender documentation for Part I.

Paragraph 2.

The Orderer and the Offerer are agreed that the price of the equipment from paragraph 1 of this Contract is _____ RSD, without VAT, as being given in the offer.

The Orderer confirms that the agreed price will be paid in the following way: 60% after delivery, 40% after establishment of compatibility with equipment named in part 2.

Paragraph 3.

The offerer is due to deliver the equipment named in this Contract within 30 days.

Warranty for the delivered equipment is 3 years.

Paragraph 4.

To all issues that are not regulated by this Contract The Law of debenture will be applied as well as the law of Public purchase.

Paragraph 5.

The contracting parties are in accordance to resolve all relations coming out of this Contract in consent with each other, while for possible litigation they accept the authority of the Commercial Court in Nish

Paragraph 6.

This Contract is prepared in four copies, two (2) of which are given to each party.

For the Offerer

For the Faculty of Electronic Engineering in Nish

director

prof. Dr. Dragon Antioch, dean

DECLARATION

According to the paragraph 27. part 3. line 5) of the Law of public purchase (Official Journal of Republic of Serbia No. 39/02, 43/03 , 55/04 и 101/05) we here declare that we accept the conditions from the Public Call of the Faculty of Electronic Engineering in Nish published in the Official Journal of Republic of Serbia No. 107/2008, of 21. November 2008. for collecting of offers in an open procedure for public purchase of goods – computer, networking and video equipment for the needs of realization of the project TEMPUS JEP 41107 (PART I).

Date, _____

Offerer

PART II

Measurement-acquisition equipment for the realization of the project TEMPUS- JEP 41107

Subject of the purchase are the specified goods and appropriate warranty.

The offerer is due to offer the equipment without VAT, while the faculty of Electronic Engineering is due to issue an confirmation related to Vat exclusion.

REQUIREMENT:

- Time limit and way of payment according to the offer
- Warranty of 3 years
- Maximal total price of 30.000,00 EURO in RSD counter value

SPECIFICATION OF THE GOODS

Compulsory requirements		quant.	Additional offer	
Acquisition module		8		
Acquisition module	Acquisition module 16-Bit, min 1.25 MS/s sampling speed, USB interface, 16 analog inputs, 2 analog outputs, terminal for connection with the measuring points, supportfor LABVIEW (similar to NI-USB 6251),		24 and more analog inputs +6 points	
			4 and more analog inputs +6 points	
			resolution 18bit and more +7 points	
			More than 1.25MS +7 points	

Compulsory requirements			quant.	Additional offer	
Measurmen-ackvision working place					
Computer cotroller for the modules	Core Duo 2.0GHz	Similar to NI PXI-8105	1		

	1GB RAM			RAM 2GB +2points	RAM 4GB +4 points
	GPIB, serial and DVI port				
	1GB/s LAN				
	ExpressCard ¾ slot				
	Windows XP system				
	Hard disk			HDD do 250GB: +2 points	HDD 250GB i više: +4 points
Modul za akviziciju analognih i digitalnih signala	18-bitni modul sabrzinom semplovanja od max 625 kS/s, 16 analogna ulaza, 24 digitalnih I/O, 2 analogna izlaza (Similar to NI PXI-6281)	1	24 i više analog. ulaza +6 points	4 i više analog. Izlaza +6 points	
			Rezolucija 24bit i više +7 points		
			više od 625kS/s +7 points		
Block connector for module under No. 2	I/O connector with 4 slots for (Similar to SCC-68)	1			
2m cable for connection of modules (2 i 3)	Shielded cable of length 2m (similar to SHC68-68-EPM)	1			
Oscilloscope module, 20Ms/s	15MHz two-channel oscilloscope for sampling speed of 20Ms/s (Similar to NI PXI-5102)	1			
Coaxial cable for the module 5	Coaxial cable 50Ω for connection of modules (Similar to SMB-100)	1			
Module for acquisition of digital signals	Reconfigurable FPGA programmable module for acquisition of digital signals with 160 input/output and analysis of protocols with 3 millions of cells of speed up to 40MHz (Similar to NI PXI-7813R)	1			
Block connector for the module under No. 8	I/O connector (Similar to SCB-68)	4			
Cable 1m shielded	Cable for connection item no. 7 and No. 8 (Similar to type SHC68-68-RDIO)	4			
Module with digital signal generator	Module with digital signal generator up to 20MHz, 5V TTL/CMOS (Similar to NI PXI-6534)	1			
Block connector for the module No. 9	Connector (Similar to SCB-68)	1			
2m Cable for connecting modules (No. 9 and No.10)	Shielded cable of length 2m (Similar to SH68-68-D1)	1			

Module counter/timer with	counter/timer with eight 32-bit counter/timer with the ability of counting in both directions and 32 digital input/output lines of 5V level (Similar to NI PXI-6602)	1		
Connector for counter/timer	Connector for counter/timer (Similar to TB-2715)	1		
Module for generation of sinusoidal signal	Generator of sinusoidal signal of frequency range from 9kHz up to 100MHz (Similar to NI PXI-5404)	1		
Coaxial cable for module 14	Coaxial cable 50Ω for connection of modules (Similar to SMB-110)	3		
Probes for digital multimeter	Probes for digital multimeter	1		
Housing for the modules with power supply	Housing with the capacity of accepting 14 modules with power supply (Similar to NI PXI-1044), kabl	1		
The modules must have a software support for LabVIEW or MATLAB				

Way of marking

A contract for delivery of the specified equipment will be offered to the offerer who by the procedure of marking gets the largest number of points. In the case that two or more offerers get the same number of points advantage will be given to the one that offers lower price.

The maximal number of points that an offerer may get is 100.

The points are given to the offerer based on the offered price, technical characteristics:

$$P = P_{\text{price}} + P_{\text{quality}}$$

The maximum number of point given based on the offered price is 40, while the number of point based on the offered price for every separate offer is calculated according to the following formula:

$$P_{\text{price}} = 40 \times \frac{\text{the min. price offered for the party}}{\text{the offered price}}$$

The maximal number of points based on technical characteristics and quality is 60 and the number of points for every separate offer is got by adding the appropriate points for every maximally fulfilled additional offer from the table in the column **Additional offer**.

OFFER
ACCORDING TO THE PUBLIC PURCHASE OF GOODS
- PART II-

Number of the offer:

Date:

According to the call that you published in Official Journal of Republic of Serbia No. 107/2008, on 21. November 2008. we deliver an offer for the following equipment:

No.	Name	Total price
1.	According to the specification of the equipment	

Commercial and technical conditions of the offer:

- Time limit and way of payment: in advance (after signing the contract) 50 %, the rest of 50 % after delivery and performed technical acceptance by the commission of the Faculty of Electronic Engineering
- Validity of the offer _____
- Time limit of delivery _____
- Warranty _____
- Place of delivery: Faculty of Electronic Engineering Nish

Authorized person

P.S.

Offerer:

Statement of fulfillment of the conditions of the Call

I do confirm that the following requirements are fulfilled	Yes	No
Compulsory technical requirements of the offered equipment		
Compulsory requirements related to the origin of the equipment, warranty period and time limit of delivery		
Offered all parts of the equipment that are required		
I here declare that all time limits and conditions required by the Call and the appropriate documentation will be respected.	Signed and sealed	
Director (name):		

CONTRACT

Of public purchase of goods

Signed on _____ .2008. in Nish between:

3. FACULTY OF ELECTRONIC ENGINEERING IN NISH, Aleksandra Medvedeva str. No. 14, represented by the dean, prof. Dr. Dragan Antich (in the rest of this document the orderer), on one side and
4. _____ (name and address of the Offerer), represented by Director _____ (in the rest of this document : The Offerer), on the other side.

1. SUBJECT OF THE CONTRACT

Paragraph 1.

In the procedure of public purchase of goods that is conducted according to the Law of public purchase, after the public Call published in the Official Journal Of Republic Of Serbia No. 107/2008, of 21. November 2008. as the most convenient offerer _____ was chosen, so that to that offerer so that that offerer is allotted a contract of public purchase of goods..

Subject of the Contract is purchase of equipment for the needs of the realization of the project TEMPUS JEP 41107 (Part II) at the Faculty of Electronic Engineering in Nish, in all in accordance to the offer No. _____ of _____ .2008.

The offerer is guarantying that the equipment that is subject of this contract possesses technical characteristics and fulfills technical requirements and standards foreseen in the tender documentation for Part II.

Paragraph 2.

The Orderer and the Offerer are agreed that the price of the equipment from paragraph 1 of this Contract is _____ RSD, without VAT, as being given in the offer.

The orderer is declaring that to contracted price will be paid in the following way: in advance after signing the contract 50% , and 50% after delivery and performed reception of the equipment by The Commission of the Faculty of Electronic Engineering.

The offerer is due to provide a bank warranty before the advanced payment is done (amount of advanced payment).

Paragraph 3.

The offerer is due to deliver the equipment named in this Contract within 30 days.

Warranty for the delivered equipment is 3 years.

Paragraph 4.

To all issues that are not regulated by this Contract The Low of debenture will be applied as well as the low of Public purchase.

Paragraph 5.

The contracting parties are in accordance to resolve all relations coming out of this Contract in consent with each other, while for possible litigation they accept the authority of the Commercial Court in Nish

Paragraph 6.

This Contract is prepared in four copies, two (2) of which are given to each party.

For the Offerer

For the Faculty of Electronic Engineering in Nish

director

prof. Dr. Dragon Antioch, dean

DECLARATION

According to the paragraph 27. part 3. line 5) of the Law of public purchase (Official Journal of Republic of Serbia No. 39/02, 43/03 , 55/04 и 101/05) we here declare that we accept the conditions from the Public Call of the Faculty of Electronic Engineering in Nish published in the Official Journal of Republic of Serbia No. 107/2008, of 21. November 2008. for collecting of offers in an open procedure for public purchase of goods – computer, networking and video equipment for the needs of realization of the project TEMPUS JEP 41107 (PART II).

Date, _____

Offerer

PART III

Rest of the equipment: video, measurement, development surroundings, material for the student working boards and components for testing integrated circuits for the need of realization of the project TEMPUS/ JEP 41107

Subject of the public purchase are specified goods and appropriate warranty. The offerer is due to offer the equipment without VAT, while The Faculty of Electronic Engineering will issue a confirmation of VAT exclusion.

REQUIREMENTS:

- Time limit and way of payment 100% after delivery. The Commission of the Faculty of Electronic Engineering will perform verification of the delivered equipment, realizability of connect the equipment and performs a test switch on, based on which makes a protocol of acceptance and gives recommendation for the finish of the procedure of purchase and payment of the second part of the contracted value.
- Delivery time limit 30 days
- Warranties 3 years
- Maximal total price for this party is 1.530,00 EURO in RSD counter value.

SPECIFICATION OF THE GOODS

Number of pieces that are purchased: **1**

Compulsory requirements	
FPGA development surroundings	development surroundings (Spartan-3E Starter Kit or fo similar characteristics)

Material for the students working boards

The quantities are given in the Table

Resistors (carbon alloy 1/4W)	
value	quantity
12 Ω	55
33 Ω	30
47 Ω	35
68 Ω	10
100 Ω	160
130 Ω	10
150 Ω	20

180 Ω	60
240 Ω	50
470 Ω	100
680 Ω	35
1k Ω	290
1.2 k Ω	30
1.3 k Ω	35
1.5 k Ω	40
2.4 k Ω	20
3.3 k Ω	10
4.3 k Ω	10
4.7 k Ω	55
5.1 k Ω	10
10 k Ω	330
15 k Ω	30
22 k Ω	10
24 k Ω	10
30 k Ω	10
33 k Ω	30
47 k Ω	110
100 k Ω	80
150 k Ω	30
220 k Ω	220
300 k Ω	10
POTENTIOMETERS (linear, rotational)	
value	quantity
10 k Ω	20
47 k Ω	10
50 k Ω	10
CAPACITORS	
Value	Quantity
100 pF (ceramic)	20
470 pF (ceramic)	20
0.15 nF (ceramic)	70
0.33 nF (ceramic)	20
1 nF (ceramic)	20
2 nF (ceramic)	20
3 nF (ceramic)	40
3.3 nF (ceramic i)	75
15 nF (ceramic)	40
33 nF (ceramic)	40
100 nF (ceramic)	20
100 uF (electrolytic, 16V)	10
SWITCHES	
type	quantity
click-clack (1 pole, 2 positions on/off)	200
click-clack (1 pole, 3 positions on/off/on)	200
DIP4	55

DIP8	10
tasters	30
IC Circuits (for the logic circuit one may offer a substitution from the HC series)	
Type	quantity
UCY7407	10
SN7400N	10
IDT7408	20
UA741CN	10
UCY7493	10
SN7405	10
MC14071B	10
CD4049UBE (6xnot)	10
MC14011B (4xnand)	10
CD74HCT221 (dual msmv)	10
NL17SY74 (single dff)	10
LM148JAN (Quad)	10
LM710 (comparator)	70
MC14073BCP	10
TC4073BP	10
MC14072B	10
CD4049UBE	10
HD14081BP	10
CD4075BCN	10
HEF4013BP	10
CD4049UBE	10
MA741 (DIP 14-pinko)	50
UA741(DIP 8-pinko)	10
Sockets for IC circuits	
type	quantity
Socket (8 – pin)	10
Socket (16 – pin)	10
Socket (14 – pin)	190
TRANSISTORS	
type	quantity
BC107	20
BC109C	10
ZENER DIODES	
type	quantity
BXZ 6.8	10
BXZ 8.8	10
LED DIODES (5mm, 10mA)	
type	quantity
Led Diode (red)	200
Led Diode (green)	20
FUSES	
type	quantity
F2/250E	10
MATERIAL	
Type	quantity

Plexiglas (30x20cm)	35
Wooden panel (30x20cm)	35
furnir (30x4x1cm)	70
Buksna (white)	200
Buksna (red)	250
Buksna (blue)	120
Buksna (green)	30
Buksna (white)	30
Buksna (black)	60
Buksna (grey)	60
Screw (wooden, 2.5cm)	250
Flat cable multicolor, ten wire, 1mm	60m
Tin wire	coil
Paste	tuba
Metal frame for the PCB	130
THE REST OF COMPONENTS	
type	quantity
Finder 95.83.3	2
Finder 40.31.230	2
Finder 95.85.5	2
Finder 40.52.230	2

Note: for some of the components the English name was not known to Prof. Litovski who is translating this document in an imposed rush.

Component for testing of integrated circuits

Number of pieces given in the table

material	quantity
socket ic test dil 40	2 pieces
Socket ic chip plcc 20	1 piece
Socket ic chip plcc 28	1 piece
Socket ic chip plcc 32	1 piece
Socket ic chip plcc 44	1 piece
Socket ic chip plcc 52	1 piece
Socket ic to-100	1 piece
Socket ic smd plcc 20	1 piece
Socket ic smd plcc 28	1 piece
Socket ic smd plcc 32	1 piece
Socket ic smd plcc 44	1 piece
Socket ic smd plcc 52	1 piece
hilzna 1mm	300 pieces
termo bužir	1m
Bananice	150 pieces
crne buksne	100 pieces

crvene buksne	100 pieces
jednožilna žica 2mm	50m
furnirana iverica 1cm	1m ²
Plexiglass 5mm	1m ²
kontakt sprej	1 piece

Note: for some of the components the English name was not known to Prof. Litovski who is translating this document in an imposed rush.

Video projector and a screen

Number of pieces being purchased: **1**

Description	Compulsory requirements
Video projector	2000ANSI, 1024x760, 2000:1 contrast, VGA input, life longevity of the walve 3000 hours
Screen	180x180cm

Requirements:

When choosing the best offerer one will consider only complete offers i.e. only those offers that contain the required equipment and material according to the specification and satisfy the compulsory requirements

Way of marking

The maximal number of points based on the offered price is 100 points, while the number of points based on the offered price will be calculated according to the following formula:

$$P = 100 \times \frac{\text{the min. price offered for the party}}{\text{the offered price}}$$

OFFER
ACCORDING TO THE PUBLIC PURCHASE OF GOODS
- PART I II-

Number of the offer:

Date:

According to the call that you published in Official Journal of Republic of Serbia No. 107/2008, on 21. November 2008. we deliver an offer for the following:

No.	Name	Total price
1.	According to the specification of the equipment	

Commercial and technical conditions of the offer:

- Time limit and way of payment: after delivery and performed technical acceptance by the commission of the Faculty of Electronic Engineering
- Validity of the offer 60 days
- Time limit of delivery 30 days
- Warranty 3 years
- Place of delivery: Faculty of Electronic Engineering Nish

Authorized person

P.S.

Offerer:

Statement of fulfillment of the conditions of the Call

I do confirm that the following requirements are fulfilled	Yes	No
Compulsory technical requirements of the offered equipment		
Compulsory requirements related to the origin of the equipment, warranty period and time limit of delivery		
Offered all parts of the equipment that are required		
I here declare that all time limits and conditions required by the Call and the appropriate documentation will be respected.	Signed and sealed	
Director (name):		

CONTRACT

Of public purchase of goods

Signed on _____2008. in Nish between:

5. FACULTY OF ELECTRONIC ENGINEERING IN NISH, Aleksandra Medvedeva str. No. 14, represented by the dean, prof. Dr. Dragan Antich (in the rest of this document the orderer), on one side and
6. _____(name and address of the Offerer), represented by Director _____ (in the rest of this document : The Offerer), on the other side.

1. SUBJECT OF THE CONTRACT

Paragraph 1.

In the procedure of public purchase of goods that is conducted according to the Law of public purchase, after the public Call published in the Official Journal Of Republic Of Serbia No. 107/2008, of 21. November 2008. as the most convenient offerer _____ was chosen, so that to that offerer so that that offerer is allotted a contract of public purchase of goods..

Subject of the Contract is purchase of equipment for the needs of the realization of the project TEMPUS JEP 41107 (Part III) at the Faculty of Electronic Engineering in Nish, in all in accordance to the offer No. _____ of _____2008.

The offerer is guarantying that the equipment that is subject of this contract possesses technical characteristics and fulfills technical requirements and and standards foreseen in the tender documentation for Part III.

Члан 2.

The offerer and the Orderer are agreed that the price of the equipment from paragraph 1 of this Contract is _____ RSD, without VAT, as given in the offer.

The orderer is taking the responsibility to pay the contracted price in the following way: after delivery and the performed acceptance by the Commission of the faculty of Electronic Engineering in Nish.

Paragraph 3.

The offerer is due to deliver the equipment named in this Contract within 30 days.

Warranty for the delivered equipment is 3 years.

Paragraph 4.

To all issues that are not regulated by this Contract The Law of debenture will be applied as well as the law of Public purchase.

Paragraph 5.

The contracting parties are in accordance to resolve all relations coming out of this Contract in consent with each other, while for possible litigation they accept the authority of the Commercial Court in Nish

Paragraph 6.

This Contract is prepared in four copies, two (2) of which are given to each party.

For the Offerer

For the Faculty of Electronic Engineering in Nish

director

prof. Dr. Dragon Antioch, dean

DECLARATION

According to the paragraph 27. part 3. line 5) of the Law of public purchase (Official Journal of Republic of Serbia No. 39/02, 43/03 , 55/04 и 101/05) we here declare that we accept the conditions from the Public Call of the Faculty of Electronic Engineering in Nish published in the Official Journal of Republic of Serbia No. 107/2008, of 21. November 2008. for collecting of offers in an open procedure for public purchase of goods – computer, networking and video equipment for the needs of realization of the project TEMPUS JEP 41107 (PART III).

Date, _____

Offerer