INVITATION FOR QUOTATION

TEQIP-III/2019/seip/Shopping/61

13-Jan-2019

Τo,

The CONCERNED

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr.	Brief Description	Quantity	Delivery	Place of	Installation
No			Period(In	Delivery	Requirement (if
			days)		any)
1	Analog Attach MCU Labs	1	50	NPSEI	Yes
	(ARM)/Embedded Lab			Pithoragarh	
2	Analog front end	1	50	NPSEI	Yes
				Pithoragarh	
3	Connectivity Attach Lab	1	50	NPSEI	Yes
	(Ultra Low Power			Pithoragarh	
	Lab/Internet of Things Lab				
	(IOT))				
4	IOT Sensor Modules	1	50	NPSEI	Yes
				Pithoragarh	
5	Robotic ARM	1	50	NPSEI	Yes
				Pithoragarh	

6	Senzband with Mind Sync	1	50	NPSEI	Yes
	and Memorie App			Pithoragarh	
7	Software	1	50	NPSEI	Yes
				Pithoragarh	
8	TI-RSLK Kit	8	50	NPSEI	Yes
				Pithoragarh	

- Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
- 3. Quotation,
 - 3.1 The contract shall be for the full quantity as described above.
 - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
 - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
 - 3.4 Applicable taxes shall be quoted separately for all items.
 - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - 3.6 The Prices should be quoted in Indian Rupees only.
- 4. Each bidder shall submit only one quotation.
- 5. Quotation shall remain valid for a period not less than **50** days after the last date of quotation submission.
- 6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

- 6.2 confirm to the terms and conditions, and specifications.
- 7. The Quotations would be evaluated for all items together.
- 8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- 8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
- 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
- 9. Payment shall be made in Indian Rupees as follows:

10. Delivery and Installation - 50% of total cost

Satisfactory Acceptance - 50% of total cost

All supplied items are under warranty of **36** months from the date of successful acceptance of items.

- 11. You are requested to provide your offer latest by 12:00 hours on 04-Feb-2019.
- 12. Detailed specifications of the items are at Annexure I.
- 13. Training Clause (if any) Yes
- 14. Testing/Installation Clause (if any) Yes
- 15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
- 16. Sealed quotation to be submitted/ delivered **THROUGH INDIAN SPEED POST ONLY** at the address mentioned below,

NANHI PARI SEEMANT ENGINEERING INSTITUTE PITHORAGARH (Erstwhile Seemant Institute of Technology, Pithoragarh)

GIC Campus, Link Road, Pithoragarh-262 502, Uttarakhand

17. We look forward to receiving your quotation and thank you for your interest in this project.

Annexure I

1.ROBOTICS 2.ARTIFICIAL INTELLIGENCE 3.IOT (INTERNET OF THINGS) 4.ULTRA LOW POWER

Sr.	Item Name	Specifications			
No					
1	Analog Attach MCU Labs	MODULE 1: 2NOS			
	(ARM)/Embedded Lab	Two CC110L RF BoosterPack boards			
		 Two MSP430G2553 devices (preloaded with a sample 			
		program)			
		Quick Start Guide			
		CD with software and documentation			
		MODULE 2: 2NOS			
		ARM Cortex M4 Core, 80MHz Speed			
		256 K Flash, 32 K RAM			
		2 , 12 Channel 12-bit ADC			
		16 PWM Channels			
		USB Host/Device/OTG			
		2 CAN			
		43 GPIOs, 4 SPI, 4 I2C, 8 UART			
		MODULE 3: 2NOS			
		 InvenSense MPU-9150: 9-axis MEMS motion tracking 			
		o 3-axis gyro			
		o 3-axis accelerometer			
		o 3-axis compass			
		Bosch Sensortec BMP180 pressure sensor			
		Sensirion SHT21 humidity and ambient temperature			
		sensor			
		 Intersil ISL29023 ambient and infrared light sensor 			
		• TI's TMP006 non-contact infrared temperature sensor			
2	Analog front end	Three TL082 Dual Op-amps			
		Three MPY634 Analog Multipliers			
		200 Nos –Times IC's			
3	Connectivity Attach Lab	MODULE 1: 2NOS			
	(Ultra Low Power	2.4 GHz, ISM band multichannel low power transceiver			
	Lab/Internet of Things	Module			
	Lab (IOT))	2 LEDs, 1 Push Button			
		Wireless Sensor Monitoring Applications			
		Application UART allows serial communication to PC			
		MODULE 2-2 NOS			
		1 x CC2650 Module BoosterPack			

	10-pin JTAG debug cable
	1 x Additional CC2650 Module Sample
	MODULE 3-2NOS
	Wi-Fi Network Processor in QFN package
	Industry's first devices to be Wi-Fi CERTIFIED™ at the chip level
	by the Wi-Fi Alliance™
	2 20-pin stackable connectors (BoosterPack headers) to
	connect to TI LaunchPads and other BoosterPacks On-board
	chip antenna with option for U.FL-based testing Power from
	on-board LDO using USB OR 3.3V from MCU
	LaunchPad
	2 push buttons
	4 LEDs
	Jumper with 0.1 Ohm resistor for current measurement
	0.8 megabit serial flash
	40 MHz crystal, 32 KHz crystal and oscillator
	U.FL and chip antenna
	USB
	4 Layer PCB with 6 mm spacing and track width
	MODULE 4- 1NOS
	Supports various IDE: CCS, IAR Embedded Workbench for ARM
	Cortex-M4
	Standalone development platform featuring sensors, LEDs and
	push-buttons
	On-board chip antenna with option for U.FL-based testing
	2x20-pin stackable connectors (BoosterPack headers) to
	connect to TI LaunchPads and other BoosterPacks
	Back-channel universal asynchronous receiver/transmitter
	(UART) through USB to PC
	XDS110-based JTAG emulation with serial port for flash
	programming
	MODULE 5 : 2 NOS
	USB 2.0-enabled MSP430F5529 16-bit MCU
	Up to 25 MHz
	128KB Flash and 8KB RAM
	12 Bit SAR ADC
	Various USB device class examples and embedded software
	libraries available (CDC, HID, MSC) eZ-FET lite: Open source
	onboard debugger with application UART
	One USB connection for emulator and target via the use of an
	onboard USB hub
	USB as power source: 5V and 3.3V through a high efficiency
	DC/DC converter
	40 pin LaunchPad standard leveraging the BoosterPack
	ecosystem

4	IOT Sensor Modules	SI No. Modules Features			
		HR202 Soil Humidity Sensor 3.3V-5V DC Operation			
		15 mA Operating Current			
		Humidity Range: 20 to 95%			
		LM 393 Based Design			
		2 Water Level Sensor 3-5V DC Operation			
		Operating Current <20 mA			
		Sensor Type: Analog			
		3 Alcohol Sensor Selective digital/analog output			
		Direct and easy interface			
		High Sensitivity & Response Time			
		4 Temperature Sensor LM35 based sensor			
		Digital/Analog output			
		Good Sensitivity			
		5 Sound Sensor Electret microphone based DC 4-6V			
		Single signal output			
		Can be used for voice control and sound detection			
		6 Ultra-Sonic Sensor 5v wide voltage input range			
		Current consumption <3 mA			
		2-200 cm of non-contact measurement range			
		7 LDR Sensor Sensitive type photo resistance sensor 3.3-5V DC			
		DO digital switch and AO analog voltage output			
		Fixed bolt hole, convenient installation			
		8 3-Axis Accelerometer Wide Application area			
		Tilt & Motion, Motion Sensing,			
		Free Fall Detection			
_		E Compass, Image Stability			
5	Robotic ARM	HARDWARE			
		I ne kit consists of black anodized aluminum brackets,			
		Aluminum tubing and nubs, custom injection molded			
		D sensor for the detection of object on the convoyor			
		belt.			
		 Camera USB Type, Full HD 1080p,H.264 avc 			
		compression, Carl zeiss optics must be supplied for the image			
		processing Applications.			
		Must be supplied with Remote having 5 knobs to			
		control the each servomotor respectively.			
		Mounted Object detection Conveyor Belt for Material			
		Pick up and place.			
		On Board Bluetooth to control wirelessly.			
		 USB cable for the interfacing to the PC. 			

		Power adapter to power the board			
		THE MECHANICS			
		• The arm uses 1 x HS-475HB in the base.			
		• 1 x HS-805BB in the shoulder.			
		• 1 x HS-755HB in the elbow.			
		• 1 x HS-645MG in the wrist.			
		Wrist rotates Servo Motor.			
		• 1 x HS-422 in the gripper.			
		THE CONTROLLER SECTION			
		• AVR processors (Atmega328) based Controller,			
		• Serial port-based version with powerful PC software			
		with USB interface			
		• Reprogrammable Section with PC software using USB			
		IR based object detection. And conveyor belt			
		controlling mechanism.			
		SOFTWARE			
		 Interfaced through MATLAB. And MATLAB based 			
		experiments programs must be supplied.			
		• For future LABVIEW compatibility must be there.			
		 Android interface to the Arm through APP and App 			
		must be provided.			
		EXERCISES			
		Camera based color detection on conveyor belt			
		mechanism.			
		Real time controlling of the Robotic Arm through GUI			
		Created in MATLAB.			
		 Image processing application through compatibility 			
		using MATLAB software			
		 MATLAB based Sorting of object on basis of their color 			
		using image processing in MATLAB			
		Android based control of robotic ARM learning			
		kinematic and Inverse Kinematics			
		Open platform for Android Application through			
		Bluetooth.			
		All reading of unit must be connected to system in			
		excel file.			
		Must Supplied with dust cover.			
6	Senzband with Mind	Senzband with Brain wave technology			
	Sync and Memorie App	RSLK compatible sensors and Bluetooth Module			
		PIR sensor			
		HM-10 Bluetooth module			
		ultrasonic sensor			
		Servo motor			
		moisture sensor			
		buzzer			

		Dedicated Edgate Apps for RSLK			
7	Software	SOFTWARE: CrossWorks Single License for Microcontroller			
		SOFTWARE: NeeuroDEV Software Development Kit Our SDK			
		Integrates Senzeband, a safe and non-invasive brainwave			
		sensor, to let you monitor and make use of EEG Signals			
		together with your application .			
8	TI-RSLK Kit	 Teaches the foundations of an electronic system and 			
		includes:			
		SimpleLink™ MSP432P401R MCU LaunchPad™ development			
		kit			
		Motor drive and power distribution board			
		Robot chassis, motors, Line IR sensors			
		50+ other mechanical and electronic components			

Additional Terms & Condition:

- 1. The manufacturer/authorized dealer should submit three purchase order along with satisfactory work completion certificate for similar types of items supplied to other Engineering colleges/organizations.
- 2. All manufacturer/authorized dealer need to mention the make and model no for the item quoted and authorized dealer has to submit the recent valid authorization certificate from the original manufacturer.
- 3. The manufacturer/authorized dealer has to provide at least three years warranty and free service/maintenance required at the college site.
- 4. Pre dispatch inspection may be carried out if necessary for certain goods at the manufacturer site.
- 5. At the time of technical evaluation of products, the vendor may be called for the demonstration if required.
- 6. FREE installations and FREE Demonstration at College.
- 7. The manufacturer/authorized dealer should provide catalog/leaflet in support of the quoted product.
- 8. Vendor should provide License copy of Cross Works Software (Electronically Delivered) and Certificate from Authorized Partners to Sell Cross Works software In India.
- 9. Vendors have to quote the full package and demonstrate all the experiments covered. Quotation will be evaluated for the whole package.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

To:

Date: _____

SI.	Description of	Qty.	Unit	Quoted Unit rate in Rs.	Total Price	Sales tax and other	
No.	goods (with full			(Including Ex Factory price, excise duty, packing and	(A)	taxes payable	
	Specifications)			forwarding, transportation, insurance, other local		In	In figures
				costs incidental to delivery and warranty/ guaranty		%	(B)
				commitments)			
Total Cost							

Gross Total Cost (A+B): Rs. _____

We confirm that the normal commercial warranty/ guarantee of ————— months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____