



**GAUHATI UNIVERSITY
INSTITUTE OF SCIENCE AND TECHNOLOGY
Gopinath Bordoloi Nagar, Guwahati-781014**

Date: March 09, 2017

Notice Inviting Quotations

NIQ No. GUIST/AICTE-NEQIP/2017/03, Dated March 09, 2017

Sealed quotations from reputed vendors, dealers and suppliers are invited for supply, installation, fixing of Equipment and Lab Accessories etc. under the category Lab equipments/accessories.

The last date of submitting the quotations to the undersigned is 17th March, 2017 upto 1 PM. Opening will be on 17th March, 2017 at 2 PM. The sealed quotations are to be submitted to the GUIST Office, New GUIST Building, Gauhati University on all working days till the last date and time, during office hours.

Director, GUIST

Copy To:

1. Treasurer, GU for information
2. HoD's, Dept.'s of Appld. Sc., BET, ECE, IT
3. Jt Registrar, GU, for publishing this notice in the GU website
4. Notice Boards
5. Office Files

Terms and conditions:

1. Rates must be shown in following order:

SI No	Item Specification	Unit Price	Tax applicable	Quantity	Total Price
			Total Price w/o Tax		
			Tax:		
			Total Price with Tax		

2. Only vendors who collect the detail NIQ paying the prescribed fee may submit the Quotations. Quotation must be submitted in separate envelope for different Packages, mentioning the package number and title.
3. The agency must be OEM/Dealer/Service Integrator.
4. If the agency is not OEM, OEM authorization to quote against this NIQ must be submitted.
5. EMD against the total quoted value (Not on Unit Price) must be deposited through DD in favour of GUIST @ 2% of the total value (Not the unit price).
6. All tax clearance certificates and Tax Registration certificates applicable in Assam must be attached.
7. The Bidder's audited annual financial statements (balance sheet, Income statement) for the last three years shall be provided. Annual turnover must be of atleast 3 times of the Quoted Value.
8. Bidder must have previous experience of successfully executing minimum of two (2) similar nature contracts within the last two years, each of value not less than 70% of the current quoted value.
9. The Bidder must submit certified copies of supply orders that substantiate fulfilment of the above criteria and information.
10. Bidder must have executed similar orders in Educational Organisations/Govt./Semi Govt organizations. Certificate must be produced.
11. A signed copy of the Detail NIQ must be submitted along with the technical bid.
12. The Quotation must be submitted in two envelope system: 1. Technical Bid: Detail specifications, all relevant documents along with the technical of the submissions. 2. The price bid against the detail specifications. Softcopies in CD must be put inside the envelopes.
13. Price bid will be considered only after qualifying in the technical bid system
14. All specifications are at minimum.
15. Date of opening of quotation is 17th March, 2017 at 2 PM. Representatives of the agencies may attend the Quotation Opening Meeting.
16. The GUIST reserves the right to modify/cancel the requirements.
17. Non-Conformity of the any of the terms and conditions will disqualify the Agency and price bid will not be considered.
18. All terms and conditions will be as per Gauhati University rules, regulations and decisions.
19. Warranty of 2 years for item nos. 43, 47, 48, 49, 50, 51, 52 & 53.
20. After sales service must be ensured with a declaration through affidavit

21. Performance guarantee of 10% of the billed value will be retained for the warranty period+ 6months in the form of bill deduction or bank guarantee.



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Notice Inviting Quotations

NIQ No. GUIST/AICTE-NEQIP/2017/ , **Dated March 06, 2017**

List of Items: Equipment / Instruments / Accessories:

Sl.	Items with specifications	Quantity
1	Resistance (5% Tolerance) 10Ω,47Ω,82Ω,100Ω,150Ω,220Ω, 330Ω,470Ω,560Ω,680Ω,820Ω (1 Watt) 1k, 10k, 1.5K, 2.2K, 4.7K, 5.6K, 6.8K,15K, 22K, 27K, 33K, 47K, 56K, 100K, 150K, 220K, 330K, 680K, 1M, 2.2M, 10M (1/4 Watt)	300 each
2	Potentiometer Linear, Metal housing 1k, 10k, 100k, 1M	100 each
3	Capacitor (Ceramic) 101, 102, 103, 104, 1u, 2.2u, 3.3u, 4.7u, 10u, 22u, 47u, 33u, 100u, 220u, 470u, 1000u	300 each
4	Diode 1N4007, 1N4148, 0A79	100 each
5	Transistor 1. BC547, BC549, BC557 2. BC107, 2N2222, SL 100	100 each 100 each
6	Zener Diode 6.2V, 5.1V, 9.1V, 12V	60 each
7	MOSFET IRF540	30
8	IC 1. 7400, 7402, 7403, 7404, 7408, 7805, 7809, 7414, 7432, 7486, 4060, 7476, LM741, LM324, LM358, LM386, LM555, LM565, LM308, XR2206, LM301, LM833, LM359 2. 7401, 7405, 7406, 7407, 7409, 7412, 7445, 7446, 7447, 7448, 7479, 7480, 7490, 7491, 7492, 74138, 74151 3. 7805, 7809, 7812, 7905, 7909, 7912	1. 200 each 2. 100 each 3. 100 each
9	VCO LM566	100
10	Instrumentation Amplifier IC INA114	50
11	OPTO-Isolated IC 4N25	50

12	ADC 804, 808	100 each
13	DAC 7224, 808	100 each
14	BREAD BOARD 3.3x2.2x0.3 in	100 each
15	Battery 1. 9 V 2. 1.5V AA, 1.5V AAA	1. 100 2. 200 each
16	LED Red, Blue, Green, Yellow	100 each
17	Laser diode RED 5mW	100
18	Motors 1. DC 12 volt DC 2. High Torque 12 volt DC 3. Stepper 6 volt DC 4. Servo 5 volt DC	1. 50 2, 3 & 4. 20 each
19	Motor Driver IC L293D, L298D	30 each
20	MAX 232	20
21	Temperature Sensor LM 35	50
22	DC fan 12 V	20
23	Speaker & Buzzer	50
24	Photo Diode	50
25	Photo transistor	50
26	PLL IC IC 565	50
27	TL084	50
28	Decade Counter IC CD 4017	50
29	Johnson counter IC CD 4033	50
30	Microcontroller Atmega 16	50
31	Crystal Oscillator 11.0598MHz, 12 MHz, 8 MHz	30 each
32	RF module transmitter and Receiver 2 channel open platform	50
33	Inductor 10uH, 22uH, 33uH, 47uH, 150uH, 1mH, 10mH	50 each
34	Gang Capacitor 2-22 pF	30
35	Soldering Wire 50gm Roll	50 pack
36	Soldering Iron with stand	50
37	Soldering paste	50 pack
38	De-soldering pump	15
39	Wire Cutter, Stripper	50
40	Wire G, R, B, Y 6 Inch Multicolour	20 bundle each

41	Jumper Wire	200
42	IC Extraction Tool	20
43	Digital Multimeter <u>Specification:</u> <ul style="list-style-type: none"> • 4 1/2 Digits 19999 counts (GDM-452), 3 1/2 Digits 1999 counts (GDM-357/350B) • Manual Ranging, Continuity Beeper/Diode Test, Data Hold • hFE Test (GDM-350B) 	50
44	Transformer 6V,9V, 9 V (centertapped), 12 V, 15 V, 15V (centertapped)	30 each
45	CRO Probe & Crocodile Cables Passive oscilloscope probes/1X/10X/100X	100
46	BNC Connectors 50 Ohm, 75 Ohm	100 each
47	Universal Microcontroller burner/ Programmer <u>Specification:</u> Printer-port or USB interface with auto-switch power No adapter for DIL chip up to 48-pin 48-pin universal pin driver and current limit Device insertion /continuity check, Automatic EPROM/ Flash ID search Auto-sense/ Self programming with statistical report Support 5V and 3.3V low voltage devices, 1.8V chip support thru. low voltage adapter Less than 2 seconds per M bit Programming speed for high density flash chip. Serialization for Memory/ μ P chip Memory buffer H / L byte swap Project file save / load function User-selectable verify Vcc with one or two-pass verify voltage Automatic file format detection and conversion	1
48	IC TESTER <u>Specification:</u> Tests a wide range of Digital IC's such as 74 Series, 40/45 Series of CMOS IC's It tests Microprocessor 8085, 8086, Z80 It tests Peripherals like 8255, 8279, 8253, 8259, 8251, 8155, 6264,62256,8288,8284 It has Auto search facility of IC's Test by: Truth table/sequence table comparison It tests a wide range of Analog Ic's such as ADC, DAC, Opamp, 555, Transistor Arrays, Analog Switches, Waveform Generator, Line Drivers, VoltagesRegulators, PLL's, VCO, PWM Generator, Sample & Hold, Voltages References, Optocouplers, Comparators, Voltages Followers and Others It tests Seven segment display of common cathode & common anode type ZIF: Two Nos. of 40 pin DIP ZIF sockets for Digital & Analog IC's Keys: 50 cherry keys Key pad with numerical & functional keys Display: 16x2 Backlit LCD Display Supply Input Voltage: 230V AC	1

49	<p>LCR Meter <u>Specification:</u> <u>Measuring parameter</u></p> <p>Inductance : L Capacitance : C Resistance : R Quality Factor : Q Dissipation Factor : D Measuring Frequency : 100 Hz, 1 KHz and 10 KHz $\pm 0.02\%$ Test signal voltage level : 0.3 Vrms $\pm 10\%$ (Open circuit) Test speed : 5 meas/sec</p> <table border="1" data-bbox="240 590 1308 982"> <thead> <tr> <th>Parameter</th> <th>Frequency</th> <th>Measuring Range</th> </tr> </thead> <tbody> <tr> <td rowspan="3">L</td> <td>100 Hz, 120 Hz</td> <td>1uH ~ 9999H</td> </tr> <tr> <td>1 KHz</td> <td>0.1uH ~ 999.9H</td> </tr> <tr> <td>10 KHz</td> <td>0.01uH ~ 99.99H</td> </tr> <tr> <td rowspan="3">C</td> <td>100 Hz, 120 Hz</td> <td>1pF ~ 19999uF</td> </tr> <tr> <td>1 KHz</td> <td>0.1pF ~ 1999.9uF</td> </tr> <tr> <td>10 KHz</td> <td>0.01pF ~ 19.99uF</td> </tr> <tr> <td>R</td> <td></td> <td>0.1mΩ ~ 99.99MΩ</td> </tr> <tr> <td>Q</td> <td></td> <td>0.0001 ~ 9999</td> </tr> <tr> <td>D</td> <td></td> <td>0.0001 ~ 9.999</td> </tr> </tbody> </table>	Parameter	Frequency	Measuring Range	L	100 Hz, 120 Hz	1uH ~ 9999H	1 KHz	0.1uH ~ 999.9H	10 KHz	0.01uH ~ 99.99H	C	100 Hz, 120 Hz	1pF ~ 19999uF	1 KHz	0.1pF ~ 1999.9uF	10 KHz	0.01pF ~ 19.99uF	R		0.1m Ω ~ 99.99M Ω	Q		0.0001 ~ 9999	D		0.0001 ~ 9.999	1
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50	Raspberry Pi 3 Starter Kit	5																										
51	Audrino board	3																										
52	<p>DC Power Supply</p> <p><u>SPECIFICATION:</u> DC Output : 30V/2A, 0 - ± 15V/1A, Tracking, 5V/5A Setting Resolution V : 10 mV, I : 5 mA Load Regulation : $< \pm (0.05\% + 10 \text{ mV})$ Line Regulation : $< \pm (0.05\% + 10 \text{ mV})$ Ripple & Noise : $< 1 \text{ mVrms}$ Internal Resistance : $< 10 \text{ m}\Omega$ Stability : $< 2.5 \text{ mV}$ at full load Recovery Time : $< 50 \text{ ms}$ Current Limit adjustment 100 mA to max Display : Switchable 3 digit seven segment LED for Voltage & Current Built-in overheat, over voltage protections. Insulation : Between chassis & output terminal $> 10 \text{ MW}$ at 100 Vdc, chassis & AC plug $> 50 \text{ MW}$ at 500 Vdc</p>	25																										
53	<p>Soldering Station <u>Specification:</u></p> <ul style="list-style-type: none"> • Antistatic safety • Three programmable preset temperature buttons • Precise temperature control and computerized temperature calibration • LCD display 	2																										

	<ul style="list-style-type: none"> • Two-core heating element • °C / °F temperature 	
54	KVM switch; USB, 8 port	05 nos
55	Dlink Patch Cable; 1 meter;	100 nos
56	LAN Switch ;24 port,	5 nos
57	LAN Switch ;16 port,	5 nos
58	Wireless Access Point	5 nos
59	USB Keyboard mouse	50 set
60	LCD Projector	4 nos
61	UPS Battery 42 mAh	60 nos
62	<p>MICROPROCESSOR 8086 kit</p> <p><u>SPECIFICATION:</u></p> <ul style="list-style-type: none"> • 8086 CPU operating @ 8 MHz in maximum mode • Socket provision for co-processor • 8284A clock generator • 8288A bus controller • Powerful monitor firmware in two 27256 EPROMs(64 KB) organised as 16 bit words • Monitor EPROMs expandable to 128 KB using two 27512 EPROMs • 64 KB Static RAM in two 62256 RAM's organized as 16 bit words with battery back-up for data retention • Hex Keypad and seven segment display interface through 8279 Keyboard/Display controller • On-board 8254 timer/counter chip. Out of 3 channels of timer/counter to the user through a 7 pin relimate connector • 48 TTL I/O lines using two 8255 PPI chips and all signals terminated on two 26 pin FRC • The PIO Cards can be interfaced through one 26 pin FRC connector • Printer interface provided through another 26 pin FRC connector • RS-232C compatible serial port using 8251 and all serial terminated on 9 pin D-type male connector • Software selectable baud rate through Hex Keyboard • On-board 8250 PIC. Out of 8 interrupts 3 are available on 50 pin FRC bus • Detachable Hex keypad and display PCB • All 8086 bus signals terminated on 50 and 20 pin FRC connectors • The peripheral Study Cards can be interface on 50 pin FRC bus • 3.6 V Ni-Cad battery back-up circuit for static RAMs 	25 nos
63	<p>Load Balancing Router</p> <p><u>Specification</u></p> <ul style="list-style-type: none"> • 1 x Gigabit Ethernet WAN Port • 1 x Gigabit Ethernet DMZ/Internet Port • 4 x Gigabit Ethernet Ports • Dual USB 3.0 Ports • 7 x 802.1Q VLANs Supported • 10 x PPTP Tunnels for Remote Access 	01 nos

	<ul style="list-style-type: none">• Enhanced Quality of Service Support• 100 Mbps IPsec VPN Throughput• 20 Mbps SSL VPN Throughput• 20,000 Concurrent Connections	
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Director, GUIST

Date: March 09, 2017