



::GAUHATI UNIVERSITY::
GOPINATH BARDOLOI NAGAR :: GUWAHATI-14 :: ASSAM :: INDIA
Website- www.gauhati.ac.in :: email – registrar@gauhati.ac.in

05/12/2016

Notice for Extension of Tender Submission Date

This notice is in continuation to our Notice inviting Quotation No. GU/G/3680 dated 22/11/2016 issued on 22/11/2016 for Procurement and Installment of Computers, Peripherals Accessories and Networking and Upgradation of Classroom Infrastructure of different Department, Gauhati University.

The Last date for submission of quotation was 05/12/2016 at 12:00 noon

The last date of submission is hereby extended to **09/12/2016** at 03:00 p.m.

All other conditions remain unchanged.

Envelopes containing the tender application may be superscribed "for Procurement and Installment of Computers, Peripherals Accessories and Networking and Upgradation of Classroom Infrastructure of different Department".

Registrar
Gauhati University



GAUHATI UNIVERSITY

Gopinath Bordoloi Nagar: Guwahati 781014: Assam: India

REF- NIQ no. GU/G/3680B dated 22-11-2016

Notice Inviting Quotation

For

Procurement and Installation of Laboratory Equipment of Different Departments

Corrigendum : Revised Specifications and extension of closing date

Closing date: 9-12-2016

Revised Specification of a few Items are shown below with other terms and conditions and specifications remaining unaltered.

Sl no	Department	Item	Revised Specification
1	Instrumentation and USIC	Function Generator	1. No. of Channel-2; 2. Waveforms: Sine, Square, Pulse, Ramp, Noise, Arbitrary; 3. Frequency Resolution- 12 digit; 4. Frequency Range: 1uHz to 25 Mhz; 5. Harmonic Distortion: <-50bBc till 25Mhz Warranty: At least 5 Years
2	Electronics and Communication Technology	1. 30MHz Oscilloscope with frequency measurement & AUTO TIMEBASE (preferred- GW-INSTEK / Keysight/Tektronics/ Scientech)	Bandwidth-30MHz; Channel & Trace- 2 channel; Vertical sensitivity- 1mV/div. to 5V/div (separate control of each channel); Horizontal sensitivity -0.2uS to 0.5S/div in 20 steps in 1-2-5 sequence (without Magnifier); Sweep magnification -x10; General facility- 5 digit direct frequency measurement, Auto Timebase, LCD display for Volt/Div, Time/div & frequency. Microcontroller Switching; Accessory- 2 x 1:1/1:10 switchable probes, mains chord, manual. Three years on-site warranty.
		2. Digital Storage Oscilloscope (preferred- GW-INSTEK / Keysight/Tektronics/ Scientech)	Bandwidth- 70MHz; No. of channel-2; Sampling Rat - real time1GS/s max.; Equivalent Sample Rate-25GS/s max.; Record Length-2M points max. Display-5.6" TFT Color LCD Display; Vertical sensitivity2mV – 10V/cm (Separate control for each channel); Horizontal sensitivity 1nS/div - 50S/div. ; Delay pre- trigger – 10 div., post trigger – 1000 div.; Vertical Resolution- 8 bit; Features- Add/Subtract/Multiply, Autose, FFT, FFTrms, FFT Zoom, Data Logging facility; Save & Recall, Upto 15 setups and 15 sets of waveform can be saved & recalled. Automatic Measurement 27 types; Peak Detect10nS, Communication Interface- USB, Host & Device Mains input - 100 – 240V.AC 1 ph. 50Hz; Accessories- 2x1:1/1:10 switchable probes, software, USB cable, manual; three years onsite warranty;
		3. 5MHz DDS Function Generator. (DDS Technology with FPGA design) (preferred- GW-INSTEK / Keysight/Tektronics/ Scientech)	Frequency-0.1Hz to 5MHz; Stability- ±20ppm; Amplitude- 1.1mV peak to 10 volt p-p (into 50 ohm) 2mV p-p to 20V p-p in OC; Duty Cycle control- 1% to 99% ≤100KHz & 20% to 80% ≤5MHz; Display- Simultaneous display of frequency amplitude & Offset; Frequency display 9 digit LED; Amplitude display 4½ digit LED; Offset display 3 digit LED; Wave Form- Sine, Square, Triangle, Ramp, Pulse, Noise, Arbitrary, TTL AM/FM/Sweep/FSK; Frequency setting -through numeric keypad, with each of the 9 digit control thr. Linear potentiometer. Arbitrary Function- Sample Rate 20MS/s; Repetition Rate-10MHz; Waveform Length-4K; Amplitude resolution-10 bit; Ext. Frequency Counter 5Hz to 150MHz; Power- -230V.AC, ±15%, 50Hz; Accessory- power chord, BNC to Crocodile Clip x 1; manual; three years onsite warranty;
		4. 12MHz DDS Function Generator. (DDS Technology with FPGA design) (preferred- GW-INSTEK / Keysight/Tektronics/ Scientech)	Frequency- 0.1Hz ro 12MHz; Stability- ±20ppm; Amplitude- 1.1mV peak to 10 volt p-p (into 50 ohm) 2mV p-p to 20V p-p in OC) Duty Cycle control- 1% to 99% ≤100KHz & 20% to 80% ≤5MHz; 40% to 60% ≤10MHz; Display-Simultaneous display of frequency amplitude & Offset. Frequency display 9 digit LED; Amplitude display 4½ digit LED; Offset display 3 digit LED; Wave Form- Sine, Square, Triangle, Ramp, Pulse, Noise, Arbitrary, TTL; Frequency setting through numeric keypad, Arbitrary Function- Sample Rate-20MS/s; Repetition Rate-10MHz;

		Waveform Length-4K; Amplitude resolution- 10 bit; Power-230V.AC, ±15%, 50Hz; Accessory-power chord, BNC to Crocodile Clip x 1 manual; three years onsite warranty;
	5. DC Regulated Power Supply (preferred- GW- INSTEK / Keysight/Tektronics/ Scientech/ Elnova)	No. of Channel:2; Display: Four 4 digit LED display for Voltage & Current; having 10mV/1mA display resolution; Range :2 x 0-30V/3A; Line & Load Regulation :0.01%; Ripple & Noise: ≤1mVrms, 5Hz to 1MHz; Protection :Overload, reverse polarity, short circuit Special features :Output ON/OFF switch for protection of DUT Output voltage & Current setting in output OFF condition, should have voltage & current setting locking facility, Built-in FAN Input Power- 230V.AC ±10%, 50Hz AC; three years onsite warranty
	6. DIGITAL MULTIMETER - 4 ½ DIGIT TRUE RMS hand held	Display 4½ digit, 22,000 counts, auto/manual range; Dc Voltage- 220mV - 1000V (0.1%); AC Voltage- 220mV to 750V; DC Amp-220µA to 10A in 6 ranges; AC Amp- 220µA to 10A in 6 ranges; Resistance- 220 Ω to 220M.Ω; Capacitance-22nF to 220mF in 8 ranges; Frequency- 10Hz to 220MHz; Sp.Features- Analog Bar Graph, True RMS, Continuity, diode test, Duty Cycle, hFE, Data Hold, Peak Hold, RS-232C interface. Accessory- 9V battery, spare fuse, test leads, manual, PC Software. three years onsite warranty
3	Geological Sciences	<ol style="list-style-type: none"> 1. Electric Oven with digital temperature control (Max. 200oC) Preferred HEICO HL 100.408 2. Centrifuge- Preferred Remi R-23 with rotor heads R- 237 3. Electronic Balance (three decimal accuracy)- Preferred Mettler Toledo PL 303 4. GPS- Preferred Garmin e Trex 5. Geologists' Hammer (Estwing)-Preferred Eastwing E13P 6. Brunton Compass – Preferred Brunton (Eclipse pro) 7. Measuring Tape (30 m and 50 m)- Preferred Freemans 8. Water level recorder (30 m) - Preferred Freemans DC/DS steel reel dip Tape (30m) 9. Low power objectives (1.6 x) for existing Nikon microscope- Preferred Nikon 10. Chisel – Preferred Taparia 11. Student grade polarizing microscope petrological (objectives requirement: 1.6 x, 5 x and 10 x)- Preferred Radical RPL 3B 12. Reflected light polarizing microscope for ore microscopy (With camera, display and image processing software. Objectives requirement: 1.6 x, 5 x and 10 x)- Preferred Nikon/Leica/Olympu s/Zeiss Axioscope A1 or equivalent 13. Binocular Stereo microscope (Objectives requirement: 1.6 x, 5 x and 10 x)- Preferred Olympus / Radical advanced stereo zoon microscope RS Mr 10 with photographic attachment 14. Hot plate- Preferred Remi 15. Portable Ph meter, Eh meter, TDS meter- Preferred Mettler Toledo single channel Ph meter IP 67 (omega CDH – 5021/5022, CDH – 5031 CDH – 5012 CDH – 5041) 16. Sieve Shaker (Table top)- Preferred Aimil 17. Sieve set (8 inch dia. of ½ phi interval)- Preferred Aimil

Important Dates: Issue of NIQ:23-11-2016, partially revised-05-12-2016; Late date and Time: 09-12-2016, 12 noon; Quotation Opening: 06 Dec. 2016, 3PM

Registrar
Gauhati University

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1. Rector, GU
2. Secretary to the Vice Chancellor, for information of the Vice Chancellor
3. Treasurer, GU
4. Controller, GU
5. Jt. Registrar, GU, for uploading in the GU website
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