



तेजपुर विश्वविद्यालय / TEZPUR UNIVERSITY
(संसद के अधिनियम द्वारा स्थापित केंद्रीय विश्वविद्यालय)
(A Central University established by an Act of Parliament)
कुल सचिव का कार्यालय/ OFFICE OF THE REGISTRAR
नपाम :: तेजपुर - 784028 :: असम
NAPAAM :: TEZPUR - 784028 :: ASSAM

SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2017-18/3723-A Dated: 27.11.2017.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of the following items required under the AICTE NEQIP Grant (Department of Electrical Engineering), and under Visvesvaraya PhD Scheme grant, Tezpur University.

Item with Specifications:

Sl. No.	Name of Equipment	Specifications
1	3-phase Autotransformer	(0-440) V With outward tappings for connection Open type
2	1- phase Autotransformer	(0-240)V
3	Oscilloscope (dual channel)	200MHz, 150 MHz, 100 MHz, 70 MHz and 50 MHz bandwidth models 2-channel models Up to 2 GS/s sample rate on all channels 2.5k point record length on all channels Advanced triggers including pulse and line-selectable video triggers
4	Voltmeter (DC)	(0-300) V
5	Ammeter (DC)	(0-10) A
6	Ammeter (DC)	(0-5) A
7	Voltmeter (AC)	(0-300) V
8	Ammeter (AC)	(0-5) A
9	Ammeter (AC)	(0-10) A
10	Micro-Ammeter (AC and DC)	(0-50) μ A, (0-100) μ A, (0-500) μ A
11	Micro-Voltmeter (DC and AC)	(0-100) μ V, (0-500) μ V
12	Clamp Meter	*(0-10) A medium range operation And high range operation.
13	Multimeter Digital	Agilent Technologies, U3402A Digital Multimeter, 5½ Digit Dual Display
14	AC True RMS Clamp Meter	Fluke R-323 *Factory Reconditioned* 400A AC True Rms Clamp Meter
15	LCR Meter	MZ-505C Promax MZ-505C Hand-held RLC Meter
16	Load Bench	1. Bulb type 2. Resistive type
17	Bread Board	830 Tie Points MB102
18	Bread Board Hook up wire	Red, Green, Black
19	OpAmp	LM741, OP07,
20	BJT	2N2222A, BC 547
21	20 turn Multi-turn POT (BOURNS)	100 Ω , 500 Ω , 1k Ω , 5 k Ω , 10 k Ω



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22	Wire Stripper	Multitec 150b Wire Stripper & Cutter
23	Heat Shrink Shrinking Tubing Tube Wire	1.0 mm, 2.0 mm
24	Jumper Wire	Male to Male Male to Female Female to Male
25	2.54mm Straight Male Single Row Pin Header Connector	
26	2.54mm Straight Female Single Row Pin Header	
27	Resistors	0.01 Ω , 0.1 Ω , 0.5 Ω , 100 Ω , 470 Ω , 500 Ω , 1 k Ω , 470 k Ω , 10 k Ω
28	Capacitors	Tantalum 1pF, 10 pF, 220 pF, 1000 pF (10, 50, 100, 1000) μ F
29	Wattmeter	150 V, 300 V, 600 V 10 A, 20 A
30	Rheostat	Single phase, open, sliding 250 Ω , 2.8 A 100 Ω , 5 A 20 Ω , 9 A 5 Ω , 20 A
31	Load bench	Bulb type
32	Electrical wire	4 mm, 100 meters
33	Switch board	2 switches/board, 20 A, protective fuse/MCB, 10 meter wire
34	Multimeter	Analog
35	Power & Hand Tool Kit	Make: Bosch, Drilling machine, 100 tools
36	Tester	High current
37	Clamp meter	100 A, battery-operated
38	Thermometer	Infrared, wireless
39	Potentiostat/Galvanostat (AUTOLAB) with Electrochemical Cell, pH measurement, Temperature measurement, FRA32M – Investigation of mechanisms at the nanoscale	Voltammetric analysis: Sampled DC, Normal pulse, Differential pulse, Differential normal pulse, Square wave Control of Hg drop electrode, Cyclic and linear sweep voltammetry, Staircase cyclic and linear sweep voltammetry, True linear scan cyclic voltammetry, High-speed linear scan cyclic voltammetry (last two modes require optional Scan 250 and ADC 10M modules) for biosensor characterization. Chrono methods: Chrono methods ($\Delta t > 1$ ms), Chrono methods high speed ($\Delta t > 100$ ns) (requires optional ADC 10M Module) Recurrent pulsing methods for biosensor film deposition.
40	Quartz Crystal Micro Balance	Measurement of mass ranging from micrograms to fractions of a nanograms. Resolution : 0.01 Hz (10 second gate) 0.1 Hz (1 second gate) 1.0 Hz (0.1 second gate) Accuracy: ± 1.5 ppm Power: 15 W, 100/120/220/240 VAC, 50/60 Hz Resistance: 0 to 5000 Ω
41	PVD (Filament Evaporator)	Substrate Fixture: Single, multiple, planetary or custom substrate



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		fixtures. Substrate Holders: Heated, cooled or biased, rotating substrate holder. Ion Source: Substrate pre-cleaning assisted deposition, nanometer-scale modification of surfaces. Power Supply: 3500 W Measurements: 43"x84"x35" (Width x Height x Depth)
42	Sonicator	Probe Sonicator: Power Rating: 700 watts Frequency: 20 kHz Programmability: 10 memories plus sequencing Programmable Timer: 72 hours Adjustable Pulse On/Off: 1 second to 24 hours Dimensions (W x L x H): 8 x 15.25 x 8.5 in. (203 x 387 x 216 mm) Voltage: 110V, 50/60 Hz
43	Magnetic stirrer	Stirrers with Hotplate (with Digital Speed Indicator): Stirring Capacity: 1-5 Ltrs Heating Capacity: 150-500 Watts External Dimensions (W x D x H) mm : 200 x 225 x 185
44	Reference Electrode	Material: Ag/AgCl Weight: (20 – 48) g
45	Counter Electrode	Platinum Wire Diameter: (.02-.05) mm Length: (5-8) cm
46	Dual Tracking Power Supply	DC: 0 to ± 30 V, /2 A and 5 V/2 A Current Limit: 100mA - 2A Adjustable Resolution: Voltage: 100mV, Current: 10mA Internal Resistance : 10mW (30V), 0.6mW
47	Digital Multimeter	Item model: MS8268 Dimensions: 7.7x1.7x1.6 inches
48	Reflux condenser	Voltage: 220V/50-60Hz Principle: Solvent distillation Extraction tube length: 230mm
49	Centrifuge	Weight: 9kg Rotor Capacity: 1.5/2 ml*12 Dimension (LxWxH): 320x340x280mm Voltage: 110V, 60Hz /220V, 50Hz
50	Carbon nanotubes (CNT)	Assay: >98% carbon basis O.D. x L: 6-13 nm x 2.5-20 μ m
51	Zirconium(IV) chloride	Grade: anhydrous Form: powder Assay: 99.99% trace metals basis
52	Hafnium(IV) chloride	Assay: 99.9% trace metals basis Form: powder
	Polyethylenimine, linear	Form: powder Mol. Wt.: average Mn 5,000

GENERAL TERMS & CONDITIONS:

1. No separate tender paper will be issued from the office; one should only download the specifications/List from the website.
2. **The rates should be preferably quoted in Indian Rupee and FOR Tezpur University, Napaam basis. Charges for clearing and transportation should be incurred by the supplier.**



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3. Quotations should be accompanied by i) An EMD (in the form of Demand Draft/Call Deposit/TDR) of ` 3000/- (Rupees Three Thousand) only drawn/pledged in favor of Registrar, Tezpur University, payable at Tezpur. **No request for consideration of earlier deposited EMD will be considered.** ii) A non-refundable application (quotation) fee of ` .1000.00 (Rupees One Thousand) only must be paid only by Demand Draft drawn in favour of Registrar, Tezpur University payable at Tezpur.
4. The rates should be exclusive of GST and applicable GST in % should be clearly indicated
5. Applicable levies, surcharge and discounts should be clearly indicated itemwise.
6. Quoted rates should be valid at least for a period of 01 year.
7. The rates should be quoted along with supporting documents of specifications and technical features and list of users.
8. The system must be installed at the laboratory, and after installation a basic training must also be provided by the supplier or their Indian counterpart without any additional costs.
9. All the quotations must be accompanied with supporting documents and / or literature.
10. Demonstration may be sought from the vendors for authentication of quoted specification.
11. Details of availability of after sales support will have to be furnished. After sales support, directly from manufacturer and from Assam (Guwahati / Tezpur) will be preferred.
12. The University is exempted from paying Custom and Excise duty.
13. Proprietary items should be quoted with sole Manufacturer/Distributorship certificate.
14. Warranty/Guarantee period should be specifically mentioned in the quotation.
15. No Advance payment will be made. However, for foreign supplier, advance payment will be made either by FDD/Wire Transfer/LC. In such cases 10% Performance Bank Guarantee should be submitted before issuing FDD/Wire Transfer/LC, covering the warranty period.
16. Performance Bank Guarantee also must be submitted for Major equipments of Indian origin, covering the warranty period.
17. Items of Foreign origin should have Insurance up to installation on site.
18. The University reserves the right to accept or reject any or all the quotations without assigning any reason.
19. Quoted price should be inclusive of essential accessories and should be CIF Tezpur University, Tezpur
20. Applications for release of EMD should be submitted to the Registrar/ Joint Registrar.
21. Apart from the above terms and conditions the University has the right to include any other terms and conditions as and when felt necessary.
22. **Quotation should be submitted in the DROP BOX placed in the reception of the Administrative Building of the University on or before 11th December 2017.If posted/couriered, should reach latest by 5.00 PM of 11th December 2017 addressed to "The Joint Registrar, Tezpur University". The Quotation Notice No. and date should be clearly superscribed in the envelope/packet containing the quotation.**

Sd/- Joint Registrar
Tezpur University