



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/2017-18/3583-A dated: 17.11.2017.

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following items required for the Department of Electronics and Communication Engineering, Tezpur University.

**Items with Specifications:**

Sl. No	Items	Specification
1	Stepper Motor 1	4-6 kg cm torque, Nema 17, Bipolar
2	Stepper Motor 2	18-22 kg cm torque, Nema 23, Bipolar
3	Stepper Motor 3	60-80 kg cm torque, Nema 34, Bipolar
4	Driver module for stepper motor 1	Sequence generator, Driver for stepper motor in serial 1
5	Driver module for stepper motor 2	Sequence generator, Driver for stepper motor in serial 2
6	Driver module for stepper motor 3	Sequence generator, Driver for stepper motor in serial 3
7	12 v 20 amp power supply	SMPS based
8	12 v 30 amp power supply	SMPS based
9	UPS 3 KVA	3 KVA online UPS with atleast 30 min backup
10	UPS 1 KVA	1 KVA online UPS with atleast 30 min backup
11	Weight machine 250 kg	Digital calibrated display, Trolley type
12	PCB copper clad board	single sided, glass epoxy, sq feet rate
13	PCB copper clad board	double sided, glass epoxy, sq feet rate
14	DSO	25 Mhz, dual channel, complete with all accessories
15	Bench Power supply 1	Multiple, 5 V, 0 to +/- 30V, 0 to +/- 15, 2 Amp
16	Bench Power supply 2	0-60V, 0-10 amp
17	Vaccum cleaner	Industrial grade, wet and dry, heavy duty, at least 1200 watt, ISI marked, Complete with all accessories
18	Blower	Electric blower, copper winding motor, ISI marked, 400 to 500 watts, rugged and good quality body
19	VGA Cable	10 mtr
20	HDMI Cable	10 mtr
21	Projector ceiling mount kit	Universal
22	Solenoid actuator	For door lock
23	Rfid read/Write module	13.56 MHz
24	Rfid reader module	13.56 MHz
25	RFID keychain tags	13.56 Mhz
26	SMD soldering and desoldering station	Hot air based, Temperature and flow control, High quality
27	Soldering and desoldering station	High power, Temperature controlled, High quality, with different soldering bit set
28	Third hand with magnifier	for holding PCB during repair, Heavy base
29	Headband Headset LED Head Light Magnifier	Magnifying Glass Loupe & 5 x Lens
30	Digital microscope for PCB	with LCD monitor at least 4 inch size, standalone, High mega



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		pixel and HD resolution
31	HDMI wifi video receiver dongle	wifi based video receiver dongle, directly pluggible to HDMI input of display device
32	Hack RF SDR	HackRF One 1 MHz - 6 GHz SDR Platform, Software Defined Radio Development Board, Aluminum alloy shell, External TCXO clock module, Antenna, Complete with all accessories
33	Function generator	3 Mhz or greater, complete with all probes
34	Lead acid battery charger	12 v, 0 to 10 amp with charge controller, display of status
35	Leaf switch	Various sizes ( 1inch to 2 inch length), various shapes
36	Laser protection goggles	Certified goggles for protection from burning laser light
37	Head phone earmuff	Headphone type earmuff
38	CRO probe	BNC to Crocodile clip
39	IC 7476	
40	IC4511	
41	IC 567	
42	IC 4029	
43	IC 4017	
44	IC 4049	
45	IC 565	
46	IC 7428	
47	IC 7840	
48	IC 2003	
49	IC 3011	
50	LM 567	
51	Transistor LM334	
52	Transistor BF494	
53	LED	Green
54	Insulation Tap	ISI Marked, new high quality stock
55	Cutter & Stripper	Wire cutter and stripper
56	Hard disk	500Gb SATA, for desktop pc, good brand and quality
57	Monitor	LCD, 18 inch or bigger
58	3 pin socket	6 Amp, good brand and quality
59	3 pin socket	16 Amp, good brand and quality
60	1 Way switch	6 Amp, good brand and quality
61	1 Way switch	16 Amp, good brand and quality
62	Neon light tester	good brand and quality
63	Switch box	Medium Size, PVC, good brand and quality
64	3 core mutistrand copper wire	2.5 sq mm PVC , rate per meter
65	Projector with ceiling mount kit	DLP projector with native resolution of 1024x768 or better, 10000 hours lamp life, Brightness of 2500 lumens or better, Support of HDMI, VGA, AV input,
66	Delta, Adaptive Delta & Delta Sigma Modulation and Demodulation Trainer	On board synchronized & adjustable amplitude sine wave generator, clock generation from crystal, sampling rate selectable by switch, on board fourth order butter worth low pass filter, on board unipolar to bipolar converter.
67	Data formatting and carrier modulation receiver trainer:	Data reconditioning formats: NRZ(M), RZ, AMI, RB, Biphasе(Manchester), Biphasе(Mark), differently encoded dibit to NRZ data. ASK, FSK, PSK, DPSK & QPSK Carrier Demodulation, on board Biphasе clock recovery circuit, on



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		board data squaring circuit and differential decoder, on board fourth order Butter worth low pass filter.
68	Connecting lug	Y-type, 1 inch size
69	RCCB	25A, 30 mA
70	Digital miliohm meter	LCD Display measuring range 20 miliohm – 2kiloohm Counts – 1999 Power – 1.5 V AA Battery or external DC 9V
71	Digital frequency meter	Power supply 240V Display:7segment 4 digit,LED display
72	Energy meter	Single phase, 1-20 A current range, 220V AC, Digital display, Good Quality
73	DC shunt motor 3-point starter	For 2HP motor, 230V
74	Capacitor	AC, 5 mf 400 volt and above
75	Capacitor	AC, 10 mf 400 volt and above
76	Liquid PCB cleaner	500 ml
77	Liquid soldering flux	100 ml, 500 ml
78	High quality white soldering flux	50 gms, 100 gms
79	Low temperature soldering wire	melting point less than 145* C
80	IC TYN278PN	7 pin
81	IC TYN268PN	7pin
82	IC 7809	Regulator
83	IRF 830	
84	IC TL074	14 pin
85	IC MP3411	SMD 16pin
86	IC MP3401	SMD 8pin
87	IC MP4221B	SMD
88	IC PC817	Optocoupler
89	IC MOC3021	Optocoupler
90	TIP 3055	Transistor
91	TL 431	IC
92	Multistrand Hook up wire	
93	Sleeve (wire insulator)	.5mm, 1mm, 1.5mm, 2mm
94	PCB cleaning brush	
95	desoldering pump	Good quality plastics, Heavy duty
96	desoldering wire	High quality
97	Quadcopter Kit for educational project	Should be able to carry a load of at least 400 gms, Multicopter Frame, Brushless Motor, ESC, Flight Controller, ESC Connection Board, Propeller (CW and CCW), At least 6 channel remote Transmitter and Receiver, Computer programmable, High Quality Battery for High flight time, LI-Ion Battery Charger, PLEASE MENTION INDIVIDUAL ITEM SPECIFICATION
98	Laser Engraving Machine	CNC laser engraving and cutting machine, 40/50 w laser source, job area at least 20x30 cm, complete with all accessories
99	Laser source head for engraving machine	Laser source head compatible with item above ( Laser engraving machine)
100	Silver /aluminium foil	Pure quality for Laboratory purpose
101	laser diode module with power supply for engraving machine	5,10 watt module complete with power supply and driver
102	Mach 3 software	with liscence
103	Mach 3 CNC USB interface card	4 Axis USB CNC Controller card 100KHz or better
104	Mach 3 CNC USB interface card	4 Axis USB CNC Controller card supporting upto 1MHz



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105	Printing A4 paper	75 gsm
106	Inkjet color refill ink	for hp GT5810
107	xerox machine opc drum	Xerox 5016
108	Xerox machine toner powder	Xerox 5016
109	Printer OPC drum	for CP1025 hp printer
110	OPC drum	for HP 51A cartridge
111	Air Conditioner	1.5, 2 ton, Preferably hot and cold- all weather, Quote rate separately for different tonnage
112	Air conditioner for dept. library	2, 3 ton, Window AC, Quote rate separately for different tonnage and for window and split
113	Reading table and chair set for dept. library	2 persons
114	Gas welding set	oxy- fuel gas welding, Complete gas welding set with 2 stage valve pressure controller, 1 set extra valve pressure controller, 1 set extra nozzle

**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.**
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 ₹.500.00 (Rupees Five Hundred) 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.



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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 11<sup>th</sup> December 2017. If posted/couriered, should reach latest by 5.00 PM of 11<sup>th</sup> 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