



### SHORT QUOTATION NOTICE

TU/11-24/Pur/Qtn/2017-18/4984-4..... Dated:.....5.2.2018

Sealed quotations are invited from reputed manufacturers/authorized dealers/vendors for supply, installation & commissioning etc. of following items required for the IUCERCE Project of Dr. Nabin Sarmah, Department of Energy, Tezpur University.

#### Item with Technical Specification

##### Item: Data Acquisition System

Sl. No.	Component	Parameter	Technical Specification
1	Data acquisition chassis	Slots	8 (Eight) slots to pick and plug different modules for data acquisition of different properties parameters
		Interface	USB 2.0 Only
		Number of counters	Minimum 4
		Resolution of counters	32bits
		Input voltage protection levels	-20V to 25V
		Power Requirement	≤ 15W
		Analog Input FIFO size	≥ 127 samples per second
		Analog Output FIFO size	≥ 127 samples per second
		Waveform acquisition FIFO	≥ 127 samples per second
		Waveform Generation FIFO	≥ 1023 samples per second
		Data stream types	Analog Input/ Output, Digital Input/ Output; Counter Input/ Output, Timer Input/ Output.
Compatibility	Should be compatible with LabVIEW™ from National Instruments (NI)		
2	Power Supply	Input	230/240 VAC
		Output Voltage	24V to 28V VDC
		Output current	5A
		Phase	1 (One)
		Working Temperature	0°C to +70°C
		Terminals	Preferably clamps for easy field installment.
		Power Cord	240V, 10A
3	Temperature Input Module for Data Acquisition System	Number of Channels	16 Channel
		ADC resolution	Min. 24bits
		Sampling rate	75S/s
		Voltage measurement range	≥ ±70mV
		Compatible thermocouple types	J,K,T,E,N,B,R and S
		Temperature Sensitivity	Up to 0.02°C



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

		Working Temperature	0°C to +70°C
		Enclosure	To be included
		Compatibility	Should be compatible with the Data acquisition chassis and LabVIEW™ platform from NI.
4	Digital Output Module for Data Acquisition System	Number of Channels	8 Channels
		Output Voltage Level	5VDC, 12VDC, 24V DC
		Working Temperature	0°C to +70°C
		Update Rate	1 ms or less
		Enclosure	To be Included
		Compatibility	Should be compatible with the Data acquisition chassis and LabVIEW™ platform from NI.
5	Digital Input Module for Data Acquisition System	Number of Channels	8 Channels
		Input Voltage Level	5VDC, 12VDC, 24V DC
		Working Temperature	0°C to +70°C
		Update Rate	1 ms or less
		Enclosure	To be Included
		Compatibility	Should be compatible with the Data acquisition chassis and LabVIEW™ platform from NI.
6	Digital Input and output Module for Data Acquisition System	Number of Channels	8 Bidirectional Channels or 8+8=16 unidirectional Channels.
		Output Voltage Level	5VDC, 12VDC, 24V DC
		Input Voltage Level	5VDC, 12VDC, 24V DC
		Enclosure	To be Included
		Update Rate	1 ms or less
		Working Temperature	0°C to +70°C
		Compatibility	Should be compatible with the Data acquisition chassis and LabVIEW™ platform from NI.
7	Current Input Module for Data Acquisition	Number of channel	3
		ADC resolution	Minimum 24 bit
		Sampling Rate	50kS/s
		Current Measurement range	Continuous 20Arms or more
		Working Temperature	0°C to +70°C
		Compatibility	Should be compatible with the Data acquisition chassis and LabVIEW™ platform from NI.
8	Front end connector for D Sub modules	Number of pins	As per the requirement of the module to be attached.
		Type	Spring Latch

**Kindly Note:**

1. Apart from the listed item, all other required peripherals/sub-components/consumables (screws, connectors as and where required, compulsory mounts etc. to function the data logging system.) for the said items should be included in the quotation.

3. The quoted components/peripherals should be compatible with each other and as mentioned should be responsive towards and compatible with LabVIEW™ platform.



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

**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 ₹. 5000/- (Rupees Five 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/Presentation 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/Gurantee 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 FoR 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 within 30 days from the date of publication of this notice. If posted/couriered, should reach within 30 days addressed to "The Joint Registrar, Tezpur University". The Quotation Notice No. and date should be clearly super scribed in the envelope/packet containing the quotation

Joint Registrar

Tezpur University

Memo No, TU/11-24/Pur/Qtn/2017-18/.....4984-A

dated: -5.2.2018

Copy for information to:

1. Webmaster, Tezpur University for uploading the notice in the website.
2. Dr. Nabin Sarmah, Department of Energy, Tezpur University.
3. File

Joint Registrar