

International and Inter University Centre for Nanoscience and Nanotechnology

MahatmaGandhiUniversity Kottayam-686560,Kerala,India

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Dr. NandakumarKalarikkal Hon:Director

Date: 01/09/2018 Tender No.11/Qut-Tend/IIUCNN/2018-2019

INVITING TENDER

Tenders are invited from companies/firms for supplying the instruments mentioned below at the International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam

Name of the scientific equipment	6.5 digit, True-RMS Benchtop Precision DMM
	(Detailed specifications are given below)
Last date and Time of submission of relevant documents by speed post	15th September 2018, 3.00 PM
Date and time of opening of technical bid	17th September 2018, 11.00 AM

IIUCNN reserve the right to accept or reject any/all quotations without assigning any reason whatsoever. For more details, please visit http://iiucnn.com/ & https://www.mgu.ac.in/

Re	gar	ds

Sd/-

Director

Specification of 6.5 digit, True-RMS Benchtop Precision DMM

	DC Voltage: Range:100mV to 1000V
Measurements	Max resolution: 100 nV
	Common mode rejection:120dB
	A/D Linearity : 0.0002% of measurement + 0.0001% of range
	Accuracy(@100mV/1Year: 0.0037+0.0035
	AC Voltage: Range:100mV to 1000Vrms
	Measurement Method: AC-coupled true RMS. Measures the AC
	component of input with up to 1000 VDC bias on any range
	AC Filter Bandwidth: 3 Hz - 300 kHz
	Max resolution: 100nV
	Common mode rejection: 70dB
	Accuracy @ 10Hz to 20KHz,(@100mV/1year): 0.06+0.04
AC Voltage	Range:100mV to 1000Vrms
AC voltage	Resistance: 2wire and 4 wire measurements
	Range: 10Ω to 1 G Ω
	Measurement Method : Current source referenced to LO input
	Max resolution: $10\mu\Omega$
	Accuracy(@ $1M\Omega/1year$):0.01+0.001
	Input protection: 1000V on all ranges
DC Current	Range: 100µA to 10A
	Max resolution: 100pA@100 Ω shunt
	Input Protection: Tool-accessible 11 A / 1000 V and 440 mA / 1000
	V fuses
	Accuracy: (@1mA/1Year): 0.05+0.005
AC Current	Range: 100µA to 10A
	Max resolution:100pA
	Input protection: Tool-accessible 11 A / 1000 V and 440 mA / 1000
	V fuses
	Shunt Resistance: 0.01Ω for 1 A to 10 A ranges 1 Ω for 10 mA and
	400 mA
	Accuracy@10Hz to 5KHz: (@1mA/1Year): 0.1+0.04
Frequency	Range: 3Hz to 1MHz
	Measurement Method: Flexible counting technique. AC-coupled
	input using the AC voltage measurement function
	Input voltage range: 100mV to 1000V
	Gate Time: 10mS, 100mS, 1S
	Accuracy@3Hz to 5Hz/Year - 0.1
	@(40Hz-300KHz/year): 0.01
Continuity	Continuity Threshold: $1 \Omega 100 \Omega$
-	Test Current: 1 mA
	Response Time: 300 S/s with audible tone
Diode Test	Test current : 100µA to 1mA
	Response Time 300 S/s with audible tone
Capacitance	Range: 1nF to 100mF
•	Maximum resolution:1pF
	Accuracy@10nF(1Year): 1% ±0.5%
Temperature	Range:-200°C to 600°C
- Janpoi utui C	Sensor: Platinum RT100
	Best accuracy:0.06%
Programmable	Limit/Compare/Pass-Fail test facility
Safety	CAT I 1000 V, CAT II 600 V
Surcey	0.11 1.1000 1, 0.11 11 000 1

Measurement	Should have Trendplot, Histogram and statisctics of data
features	
Connectivity	Front and Rear 2×4 Measurement Inputs
	USB Host Port on Front Panel for Easy Storage of Measurement
	Data and Instrument Settings
	RS-232, LAN, and GPIB Ports on Rear Panel for PC Connectivity

Earnest Money Deposit (EMD) calculated @ 1% of the Purchase Assessment Cost (PAC), subject to a minimum of Rs. 1500/-, should be paid by the firm. The E.M.D. should be furnished in the form of Demand Draft in favor of Director, IIUCNN along with sealed tenders. Tender form and other details can be had from the office of IIUCNN on all working days, by paying the Tender Fee @ 0.2% of PAC rounded to the nearest multiple of Rs.100, subject to a minimum of Rs. 400/- and maximum of Rs. 1500/- + GST @ 12%. For ensuring the guarantee, terms and conditions, etc. relating to the article supplied, an Agreement on stamp paper worth Rs.200/- must be submitted by the qualified bidder along with a Security Deposit @ 5% of the PAC. Sealed Envelope containing tenders shall be addressed to International and Inter University Centre for Nanoscience and Nanotechnology, Mahatma Gandhi University Kottayam, 686 560. Payment may be made via DD addressed to the Director, IIUCNN, payable at SBI Mahatma Gandhi University Branch

TERMS AND CONDITIONS:-

- 1. The quoted Price should be inclusive of all taxes/freight/Installation etc
- 2. Customs/ Excise Duty Exempted price should also be quoted
- 3. The tenders should have at least Three Months validity
- 4. Brand name of the equipments should be mentioned and Brochure to be enclosed
- 5. Warranty conditions, nearest servicing centers details, user reference, necessary supporting catalogues and demonstration should be provided
- 6. The right to accept or reject tenders without assigning any reason rests entirely with the undersigned
- 7. If the product has a Valid DGS & D rate contract, it may be quoted
- 8. If the date of receipt and opening of tenders is declared a holiday, the next working day shall be the last day for the purpose.
- 9. Atleast two users should be trained by the application engineers during the time of installation.