INVITATION FOR QUOTATION

TEQIP-III/2018/iiit/Shopping/57/*5182* **11-Jan-2019**

To,

Sub: Invitation for Quotations for supply of Laboratory Equipment.

Dear Sir,

1. You are invited to submit your most competitive quotation for the following Laboratory Equipment with equipment wise detailed specifications given at Annexure I,

Sr. No	Brief Description	Quantity	Delivery Period	Place of Delivery	Installation Requirement (if any)
1	Digital Storage Oscilloscope	12 Nos	45 Days	IIIT Guwahati Bongora Guwahati 781015	Yes
2	Function Generator	12 Nos	45 Days		Yes
3	Triple DC Power Supply	12 Nos	45 Days		Yes
4	True RMS Hand Held Digital Multimeter	12 Nos	45 Days		Yes

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. Quotation,
   - 3.1 The contract shall be for the full quantity as described above.
   - 3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.
   - 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.
   - 3.4 Applicable taxes shall be quoted separately for all equipment.
   - 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
   - 3.6 The Prices should be quoted in Indian Rupees only.
4. Each bidder shall submit only one quotation.
5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.
6. Evaluation of Quotations,
   The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which
   - 6.1 are properly signed ; and
   - 6.2 confirm to the terms and conditions, and specifications.
   - 6.3 You are also requested to submit the following documents:-
     - Proof of Registration under relevant law, such as Companies Act, and / or Shops & Establishment Act or Trade License from appropriate authority etc.
     - **Dealership/authorisation certificate from the OEM (Original Equipment Manufacturer).**

- **Copy of ISO or equivalent certifications of the OEM for the products to be quoted.**
- Copy of PAN, GSTIN
- Details of the after sales service facilities available at Guwahati, Assam responsible for maintaining the equipment during the entire period of warranty.

6.4 In addition to above, bidders intending to offer bids in response to advertisement published in the official website of the Institute (i.e. www.iiitg.ac.in) should submit the following :-

- Details of the similar equipment ordered by Government/ Autonomous Institute(s) during last three years as per **Annexure-II**.
- Copies of the Purchase order(s) of similar equipment from Government/ Autonomous Institute(s) during last three years.
- Customer satisfaction certificate from one such organization for similar equipment.

7. The Quotations would be evaluated for all equipment together.
8. Award of contract:
   The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.
   8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.
   8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
9. Payment shall be made in Indian Rupees(₹) as follows:
   Delivery and Installation - 90% of total cost
   Satisfactory Acceptance - 10% of total cost
10. All supplied equipment are under onsite warranty of **36** months from the date of successful acceptance of equipment with a provision of entering into Comprehensive Maintenance Contract beyond the initial warranty period of 36 months.
11. You are requested to provide your offer latest by **16:00** hours on **25-Jan-2019 .**
12. Detailed specifications of the equipment are at **Annexure I**.
13. Training Clause (if any) :**Yes,** Training to be provided after successful delivery & installation of the equipment .
14. Testing/Installation Clause (if any):**Yes,** Testing & Installation to be done by the bidder after delivery of the equipment.
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,

    The Director
    Indian Institute of Information Technology Guwahati
    Bongora, Guwahati, Pin-781015
17. We look forward to receiving your quotation and thank you for your interest in this project.

Sd/-
(Authorized Signatory)
Name & Designation
Gautam Barua, Director, IIITG

Annexure I

Sr. No	Item Name	Specifications
1	Digital Storage Oscilloscope	

Parameters	Required Specifications
Bandwidth	100 MHz and Upgradable
Analog Channels	2
Sample Rate per Channel	2 GS/s or better
Rise Time	≤ 4ns
Modes	Main, Zoom, Roll, XY
Display	TFT/WVGA or Better
Vertical Resolution	Minimum 8-bits (Measurement resolution should be 12 bits)
Vertical Sensitivity	1mV to 5 V/div
Waveform Update Rate	> 1 million Waveforms/sec
DC Vertical Accuracy	±2% or better
Time Base Range	5ns to 50 s/div
Time Base Accuracy	25 ppm or better
Zoom	Both vertical & horizontal
Maximum Input Voltage	Typically 300 Vrms
Trigger Modes (Source)	Auto, Normal, Single Sequence (CH1, CH2, Ext, AC Line)
Trigger Type	Edge (Rising/Falling), Video, Pulse Width
Input Coupling	AC, DC, GND
Input Impedance	1 MΩ ±1 %(approx. 20pF), 50 Ω ±1.5%
Storage	2.5K waveform storage without USB Flash Drive, more than 90 reference waveforms per 8 MB with USB Flash Drive
Automatic Waveform Measurement	Period, Frequency, +Width, -Width, Rise Time, Fall Time, Max, Min, Peak-Peak, Mean, RMS, Cycle RMS, Cursor RMS, Duty Cycle, Phase, Delay.
Waveform Math	At least Add, Subtract, Multiply, FFT
Cursor Measurement	ΔT, 1/ΔT, ΔV
Auto Set	Single-button, automatic setup of all channels for vertical, horizontal, and trigger systems
Interface	USB, LAN (10/100Base-T) Interface
Line Supply Voltage	220V AC ~ 50Hz (Indian)
Any other added feature	All additional features to be clearly mentioned.

Sr. No	Item Name	Specifications
2	Function Generator	

Parameters	Required Specifications
Bandwidth	20 MHz (Optional Upgradable)
Waveforms	Sine, Square, Pulse, Ramp, Noise, DC, Sin(x)/x, Gaussian, Lorentz, Exponential Decay, PRBS, and Haversine or more
Channel	2
Sine Wave	1µHz to 20 MHz
Square Wave	1µHz to 10 MHz or better
Ramp Wave	1µHz to 200 kHz or better
Pulse Wave	1mHz to 10 MHz or better
Other Waveforms if any	1µHz to 200 kHz or better
Arbitrary Waveforms	1mHz to 10 MHz or better
THD	<0.2% (20Hz to 20 kHz, 1 Vp-p) or better
Amplitude, 50Ω Load	10mVp-p to 10Vp-p (Minimum)
Amplitude, Open Circuit	20mVp-p to 10Vp-p (Minimum)
Output Impedance	50Ω (Standard)
Load Impedance	May be selectable: 50Ω, High Z
Protection	Overload Protection
Accuracy	± (1% of setting +1 mV), (1 kHz sine waveform, 0 V offset, >10 mVp-p amplitude) or better
Resolution	0.1 mV (p-p), 0.01 mV (rms), 0.1 dBm, or 4 digits
DC Offset Range, 50Ω Load	± (5Vpeak – amplitude Vp-p/2) or better
DC Offset Range, Open Circuit	± (10Vpeak – amplitude Vp-p/2) or better
Modulation	AM, FM, PM, FSK, BPSK, PWM (Minimum)
Sweep	Linear, Logarithmic
Rise/Fall Time	≤ 20ns or better
Nonvolatile Memory	Min 4 Waveforms
2 Channel Characteristics	Independent Operation, Combined, Equal or differential; Crosstalk <-90; Relative Phase 0˚ to 360˚
Line Supply Voltage	220V AC ~ 50Hz (Indian)
Trigger/Gate/Mod. Input	External
Interface	USB, LAN (10/100Base-T) Interface
Any other added feature	All additional features to be clearly mentioned.

<table>
<tr><th>Sr. No</th><th>Item Name</th><th>Specifications</th></tr>
<tr><td>3</td><td>Triple DC Power Supply</td><td>
<table>
<tr><th>Parameters</th><th>Required Specifications</th></tr>
<tr><td>DC Output</td><td>±12V to ±15V/.5A, 0-32V, 2A variable; 4.5V to 5.5V/5A
Constant Voltage & Constant Current Operation</td></tr>
<tr><td>Load Regulation</td><td>< + (0.1% + 2mV)</td></tr>
<tr><td>Line Regulation</td><td>< + (0.1% + 2mV)</td></tr>
<tr><td>Ripple & Noise</td><td>< 1mVrms</td></tr>
<tr><td>Floating Output</td><td>Electrically floating outputs, 500 Vdc (wrt to Gnd)</td></tr>
<tr><td>Current Limit adjustment</td><td>100mA to Max</td></tr>
<tr><td>Display</td><td>Switchable 3 digit DPM for Voltage & Current</td></tr>
<tr><td>Protection</td><td>Built In overheat, over voltage protection</td></tr>
<tr><td>Line Supply Voltage</td><td>220V ac, 50 Hz (Indian)</td></tr>
<tr><td>Any other added feature</td><td>All additional features to be clearly mentioned.</td></tr>
</table>
</td></tr>
<tr><td>4</td><td>True RMS Hand Held Digital Multimeter</td><td>
<table>
<tr><th>Parameters</th></tr>
<tr><td>ACV, DCV, ACI, DCI, Ω, Hz, Capacitance, dB Measurement, Event Counting</td></tr>
<tr><td>Temperature Measurement</td></tr>
<tr><td>Diode continuity</td></tr>
<tr><td>% Duty Cycle Measurement</td></tr>
<tr><td>Protective Rubber Holster for rough duty</td></tr>
<tr><td>Analog scale (Bar Graph)</td></tr>
<tr><td>Auto Ranging/ Manual Mode</td></tr>
<tr><td>Basis accuracy 0.05% of measured value</td></tr>
<tr><td>DC Voltage Measurement: 10 µ volt(30.00mV FSD) to 1000V</td></tr>
<tr><td>AC Voltage Measurement: 10 µ volt(3.00mV FSD) to 1000V</td></tr>
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- Equipment/Modules to be supplied are to be manufactured by an ISO 9001 or equivalent certified organization.
- Modules/Accessories should have same warranty of three years, as per the main equipment.

Annexure-II

Details of the similar equipment ordered by Government/ Autonomous Institute(s) during last three years

Sl No	Date of Order	Institute's Name	Name of Equipment ordered	Quantity	Order value in ₹	Whether successfully completed the Order (Yes/No)

Signature of Supplier
Name: _____
Address: _____
Contact No: _____

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

_____

_____

Sl. No.	Description of Equipment (with full Specifications)	Qty.	Unit	Quoted Unit rate in ₹ (Including Ex Factory price, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	GST and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): ₹ _____

We agree to supply the above equipment in accordance with the technical specifications for a total contract price of ₹ ———————— (Amount in figures) (Rupees ————————amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of ——————— months shall apply to the offered equipment and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier
Name: _____
Address: _____
Contact No: _____