INVITATION FOR QUOTATION

TEQIP-II/2015/GJ1G07/Shopping/56 **03-Mar-2015**

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

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

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Electronic Workbench	14	90	GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR. GUJARAT PIN- 382028	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 II** 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 items.
   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.
7. The Quotations would be evaluated for all items 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 - 0% of total cost

   Satisfactory Acceptance - 100% of total cost
10. All supplied items are under warranty of **36** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **15:00** hours on **24-Mar-2015 .**
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Training and demonstration should be provided as per the requirements after successful installation at the institute.**
14. Testing/Installation Clause (if any) **SUCCESSFUL INSTALLATION & SATISFACTORY PERFORMANCE.**
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,

Government Engineering College Nr. Animal Vaccine Institute Sector-28 Gandhinagar

17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	Electronic Workbench	As per Annexure

Annexure

Electronic Workbench (Specification)

This workbench should be equipped with following instruments with 4 Nos. of 5A and 1 no. of 15A, 230V AC Power plug and 2 drawers to put components and probes and other required accessories. This workbench consisting of instrument Panel and working are made up of antistatic material. It must have ergonomically designed instrument panel in vertical position and with sufficient work area for working. Wheel (with locking mechanism) must be provided at all the four leg of work station so that it can be easily moved. At a time at least 1 and maximum 2 students should work on this.

(1) Digital Storage Oscilloscope

1 Bandwidth: Minimum 70 MHz

2 No. of channels: Minimum 2 or more

3 Record length: Minimum 2.5 Kpoints per channels

4 Sample rate: Minimum 1 GSample/sec per channel

5 Time base range: Minimum 5 ns/div to maximum 50s/div or better

6 Automated measurements: Voltage & Time Measurements include: Period, Frequency, Delay, Rise Time, Fall Time, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Phase, Positive Overshoot, Negative Overshoot, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS, Positive Pulse Count/ Rising Edge Count, Negative Pulse Count/ Falling Edge Count, Area and Cycle Area etc.

7 FFT: button to do FFT

8 Frequency counter: Dual channel with 6 digit resolution or higher resolution

9 Lab Experiments Software through computer: It should have PC interface tools which can be used to put lab experiments on oscilloscope and to generate report directly from oscilloscope.

10 Software features: Overview, Procedure, Data Collection and Report Generation facility

11 Report generation: In HTML format

12 Internal Memory : 100 dedicated Memory to upload Labs

13 Display: Minimum 07 inches TFT color display

14 USB support: Front/Back side facility

15 Waveform Storage Facility: Pendrive in jpg and bmp format. External memory support up to 32 GB

(2) Arbitrary Function Generator

1. No. of output channels: Minimum 02
2. Waveform: Sine, Square, Pulse, Ramp, Noise etc.
3. Frequency

Sine -Minimum 1µHz to Minimum 25 MHz

Square, pulse – Minimum 1µHz to Minimum 12 MHz or more

Pulse Width – Minimum 30 ns or better

Other waveform –

DC (into 50Ω/60Ω) – -5V to +5V

Noise Bandwidth – 25 MHz or better

4. Ramp/ Triangle: 1 MHz or better
5. Aging: ± 1 ppm or better
6. Arbitrary Waveform: Each minimum 7000 point Length or better, 120 MS/s DAC or higher, 14 bit/16 bit ADC
7. Amplitude into 50Ω/60Ω: Minimum 1 mVp-p to minimum 10 Vp-p @ 50Ω/60Ω load Minimum 2 mVpp to minimum 20 Vpp @ Open Circuit
8. Units of setting: Vp-p, VRMS etc.
9. O/P impedance: 50Ω/60Ω or higher
10. Modulation: AM, FM, PM, FSK, PWM.
    -Source: Internal/external
    -AM modulation Depth: 0% to +100%
    -PM phase deviation : 0° to +180° or better
11. Sweep: Linear, Logarithmic
    -Max start/stop Freq.: Minimum 25 MHz(Sine)
    -Sweep time: 1 ms to 500 sec or better
12. Burst: Triggered, Gated or better, continuous
    -Gate and trigger source: Internal, External
13. Harmonic Distortion: ≤ -50 dB at above specified frequency
14. Auxiliary I/P :- -Modulation i/p channel 1 & 2:DC to Minimum 20 kHz
    -External trigger :TTL
15. Power Source: 230 V, 1-Φ, plug with minimum 2.5m cable length compatible at GECG-Sec-28.
16. Display: Minimum 3.5 inch TFT/LED/LCD
17. Waveform generation: Arbitrary waveforms shall be possible to generate from pen from Oscilloscope
18. Frequency Counter
    Single channel: 1 to 100 MHz
    Frequency Resolution: 5 digits/ second or higher
    Voltage Range : 250 mVpp to 5 Vpp max or higher
    Trigger Level: -2.5V to +2.5 V
19. Software: Can generate Arbitrary waveforms from Laptop/ PC shall be provided along with instrument. Compatible with window 2007/Linux or latest version.
20. Accessories: BNC to BNC cable per channel, User manual, Calibration certificate shall be provided
21. Remote Programming: USB

(3) Dual Channel DC Power Supply

DC Output : 0 - minimum 30 V, minimum 3 A Coarse and Fine controls
Output: Dual Output
Current limit : 100 mA – minimum 3 A adjustable between 0 - 30 V for both channel
Display : 3 Digit LED Display / 3 ½ digit LED display
Resolution : Voltage : 100 mV, Current : 10 mA
Stability : 2.5 mV at 30 V / 2 A
Load Regulation : ± (0.05 % + 10 mV) or better
Line Regulation : ± (0.05% +10 mV) or better
Temperature Coefficient : ± (0.05 % + 5 mV / °C)
Ripple & Noise : max 1 mV_{RMS}
Display: 3 digit for Voltage & 3 digit for Current LED indication for Voltage & Current
Accuracy : ± (1 % + 1 digit) or better
Over Range Indication: Glowing through LED for both channel
Features: Automatic Overload Current Protection for both channel
Accessories: Mains cord, Learning material in hard and soft copy

(4) 3.5 Digit Digital Multimeter

1 DC Voltage Range: Min 4V to min 1000V with minimum resolution of 1 mV
2 AC Voltage Range: Min 4V to min 1000V with minimum resolution of 1 mV
3 DC Current Range: Min 400 µA to min 10A with minimum resolution of 100 nA
4 AC Current Range: Min 400 µA to min 10A with minimum resolution of 100 nA
5 AC & DC mV range: Available
6 Frequency: Min 50Hz to Min 100kHz
7 Capacitance: Min 40nF to Min 1000 µF
8 Display (LCD): Min 3500 counts, updates 3/sec
9 Battery type: 2 AA, NEDA 15 A, IEC LR6 or better
10 Altitude: Operating: min 2000 m; Storage: Min 12,000 m
11 Other Important Features: Fuse protection , Backlight, Diode test , Continuity test, Data Hold, Overvoltage Indicator etc.
12 IP rating: IP40
13 Safety: IEC 61010-1, IEC61010-2-030 CAT III 600 V, CAT II 1000 V, Pollution Degree 2 or better safety standards
14 Electromagnetic environment: IEC 61326-1
15 Accessories: Test leads with caps, thermocouple temperature probe, 2 AA batteries, users manual.

(5) Soldering Station

- Temperature range up to 500 °C
- 80 W power output
- On/off switch with “power-on” indicator light
- It should be temperature controlled.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

_____

_____

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

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. ———————— (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 items 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: _____