



P.E.S. COLLEGE OF ENGINEERING MANDYA, KARNATAKA

OFFICE OF THE TEQIP CELL

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INVITATION FOR QUOTATION

TEQIP-II/2015/KA1G02/Shopping/73

15-Jun-2015

To,

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	FFT Analyzer	1	90	Department of Mechanical Engineering, P.E.S. College of Engineering, Mandya - 571401	Installation and testing to the satisfaction of the Departmental technical committee

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 **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **15:00** hours on **06-Jul-2015** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **Needed**
14. Testing/Installation Clause (if any) **Needed**
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,
Office of the TEQIP Cell, PES College of Engineering, Mandya - 571 401 KARNATAKA,
Phone: 08232 220043 Ext: 289
17. We look forward to receiving your quotation and thank you for your interest in this project.

**Head of the Procuring
Department**

**Nodal officer
Procurement**

Principal

Annexure I

Item Name: FFT Analyzer

4-Ch NI Data Acquisition hardware, Customised Data acquisition and processing software for FFT analysis developed on Labview platform as per the specification, Triaxial Accelerometer, Uni-axial Industrial accelerometer, Impact hammer, Optical Tachometer, Laptop for data acquisition. Detailed specifications are attached separately.

Measurement, analysis and storage system for vibration characteristics.

Sl. No.	Item	Specifications
1	4-Ch NI Data Acquisition hardware	National Instrument Data acquisition card for simultaneous data acquisition rate of at least 51.2kS/S, +/- 5V, 24 bit ADC, Dynamic range 100 dB, selectable coupling AC/DC/ICP, Anti aliasing filters Low Pass, High Pass, band Pass filters Simultaneous recording of up to 4 channels at the rate of 51.2 kS/s.
2	Customized Data acquisition and processing software developed on Labview platform as per the specification	<p>FFT analysis: FFT computation capability frequency range up to 25khz, resolution 100, 200, 400, 800, 1600, 3200, 6400, 12800 lines, Selectable Weighting windows-hannig, hamming, force, exponential, flat top etc, Selectable Averaging - Linear, exponential, peak hold</p> <p>Measurement functions- Frequency domain: FFT spectrum, Auto power spectrum, power spectral density, cross spectrum, FRF, coherence, phase spectrum, zoom FFT, impulse response</p> <p>Measurement functions- Time domain: rms, peak, peak-peak, skewness, curtosis, crest factor, auto correlation, cross correlation</p> <p>Trigger function: Free trigger, level trigger, rpm trigger, trigger delay (pre and post trigger)</p> <p>Display Formats: Linear, Log, on Both X and Y axis, dB in Y axis Front- Back, overlay, top -bottom</p> <p>Order spectrum analysis: Measure order spectrum with rpm as trigger, waterfall spectrum, color spectrograph</p> <p>RPM: One channel for acquiring rpm data from tachometer, rpm signal processing and rpm display</p> <p>Cusror function- frequency spectrum: Free single cusrer, band cusrer, harmonic cusrer, side band cusrer</p> <p>Cursor - time domain: Free cusror, delta T cusrer, peak cursor, Maximum/Min cursor</p> <p>Data storage and retrieval: Capability to store all the measured data and data retrieval possibility. Raw data</p>

		<p>storage and processed data storage</p> <p>Data formats for storage: Wave, text, UFF, Matlab and other common data formats</p> <p>Programmability: Flexibility to add user defined measurements.</p> <p>Data Acquisition and processing software: To be supplied preferably with Source code.</p>
3	Triaxial Accelerometer	ICP type, Nominal Sensitivity -100 mV/g sensitivity, Frequency range 0.5- 5000 Hz , light weight (<10gram), amplitude range +/- 50g, Temp range up to 120 deg
4	Uni-axial Industrial accelerometer	ICP type, Nominal Sensitivity 10 mV/g sensitivity, Frequency range 0-10,000 Hz , amplitude range +/- 500g with magnet mount
5	Impact hammer	ICP type, Nominal Sensitivity 2.2 mV/N (Typical), Measurement range ~4000 N (full scale), Frequency range 8,000 Hz , typical weight 100 gms (Head mass)
6	Optical Tachometer	Speed range 0- 2,50,000 rpm, with 0-5V TTL output, battery operated
7	Laptop for data acquisition	HP (PAVILION) Laptop with Windows 7 OS, 8GB RAM, 1TB Hard disk.

**Head of the Procuring
Department**

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: _____