Notice Inviting Tender

Sealed tenders are invited from reputed manufacturers / suppliers for the supply, installation, testing and commissioning of the Real Time Four Channel FFT Analyzer with Acoustic analysis capability (Quantity 01 No.).

1. FFT Analyzer suitable for measuring vibrations, impact signals in light weight structures.
2. The Analyzer shall be handy, robust, and compact in size & USB powered.
3. The Analyzer shall be capable for sound level measurements, frequency analysis, 1/1, 1/3, 1/N octave analysis, machine vibrations, building acoustic and modal analysis for future requirement.
4. The Analyzer shall be expandable to multiple channels for future requirements for Vibration, Noise, Impact Hammer, Voltage etc.
5. The instrument can be expandable to other engineering applications like non-contact vibration analysis (like beam forming), tracking analysis etc.
6. At present, Nos. Of Input Channel Required: 4 Channels extendable upto 128 channels.
7. The Analyzer shall have LabView Driver for the compatibility with Labview Software.

8. Specifications:
   Input channel:
   Resolution: 24 bits or better, Dynamic range: 110 dB, Real time bandwidth: DC...20 kHz or better, Sampling Rate: 51.2KHz, Random noise: <3 μV(A), very small phase mismatch (<1° @ 20Hz...20kHz) adjustable offset and input coupling.
   Output channel:
   Resolution: 24 bits or better, Real time bandwidth: DC...20 kHz or better.
   Note: Preference will be given for the instrument having larger bandwidth.

9. Physical Characteristics:
   - Weight: not more than 1000gms
   - Dimensions: Compact (approx: 250 mm x 150 mm x 30 mm)

10. The Analyzer shall be able to operate with any Windows-based PC, Laptop (or Tablet) with Windows 7 or higher via USB 2 or USB 3 interface.

11. Analysis Software:
    At present, the Software shall have multi analysis features including:
    - 1/3-1/N Octave + FFT Analyzer
    - Sound Level Recorder
    - Windows for: time signal, level, 1/N octave, FFT, Sonogram, Waterfall,
    - Data export to MS Excel, UFF, wav, ASCII file formats
    - Sound Level Meter IEC 61672 class 1
    - Sensor error detection (detects cable breaks for ICP sensors)

12. Scope of Supply:
    a) Main instrument with Analysis Software & LabView driver.
    b) Four (4) Nos. ICP Accelerometers/displacement sensors, miniature, light weight (< 1gm), 100 mV/g sensitivity, 1 to 8kHz, Aluminium housing, and having a minimum of 10-ft cable
    c) One (1) No. Modal Analysis Impact hammer, 8kHz frequency range 500 lb, Amplitude range 10 mV/lb sensitivity. (of reputed brand like BNK, PCB etc)
    d) Four (4) Nos. Scope input adaptor with BNC plug, etc
Terms and conditions:

1. The bidder should be registered with any government agency or with Aligarh Muslim University.
2. All duties, taxes and other levies payable under the contract should be included in the total price for local Delivery at Site, Department of Mechanical Engineering, A.M.U. Aligarh.
3. Each bidder can submit only one tender for each item. Manufacturers/authorized dealers of reputed brands of high technical quality with adequate after-sale support facilities are eligible to apply. In case the bidder is an authorized dealer, the dealership certificate from the manufacturer must be enclosed.
4. In case the item is the proprietary item of the bidder, the relevant certificate should be enclosed.
5. The make and model of the item offered must be clearly mentioned.
6. The live demonstration of the instrument is compulsory at the Institute.
7. The bidder must have supplied similar good(s) of the same make to reputed organizations to their full satisfaction. The bidder must furnish a list of such organizations with their contact details including addresses, email-addresses, telephone numbers etc.
8. The prices and commercial terms and conditions should be on the official stationary of the bidder.
9. Every page of the tender should be invariably signed and stamped, with date, by the bidder. All unsigned pages will be disregarded.
10. Tender should remain valid for a period not less than 60 days after the deadline date specified for submission.
11. Tenders are to be submitted in sealed covers, with reference No, and item name clearly mentioned on the envelope.
12. The delivery time from the date of placement of purchase order should be mentioned clearly.
13. The period of comprehensive onsite warranty from the date of satisfactory installation, testing, commissioning and acceptance of offered goods should be clearly mentioned. The comprehensive warranty period will be taken into consideration in evaluation of tenders.
14. All terms and condition of the GFR 2005 of the Government of India will be applicable.
15. 100% payment will be made after satisfactory installation, testing and commissioning and acceptance of goods.
16. You are requested to submit your offer latest by 12:00 hours on 03/12/2016. Tenders will be opened on 03/12/2016 at 2:00 PM in the office of the undersigned.
17. The tenders are to be addressed to the under signed.

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