Department Chemistry, University of Kerala, Kariavattom,

Thiruvananthapuram, Kerala, India – 695 581

08/10/2020

Re-Tender Notice

Department of Chemistry, University of Kerala, Kariavattom invites open tenders (re-tender) through e-Procurement (in two bid system), from reputed manufacturers/authorized distributors/Indian Agents for the purchase of the equipment 'Mass Spectrometer' in the Department, in connection with the implementation of the Specific Project "Advanced Research Laboratory for Molecular Sensing and imaging".

Last date and time for submission of tender online	**22/10/2020: 5 PM**
Date and time of opening of Technical bid	**28/10/2020: 11AM**
Date and time of opening of Financial bid	After technical Evaluation.
For technical details contact	Dr. Sony George Assistant Professor and Head Department of Chemistry Mobile : +91-9446462933 Email : emailtosony@gmail.com

TECHNICAL SPECIFICATIONS

Specification for Mass Spectrometer

1. We require a Mass Spectrometer with low resolution which should be able to do the Direct analysis of pure compounds through direct sampling with an option to link with HPLC.

2. **Ion Source**:

    2a) The system must be equipped with dedicated ESI (Optional APCI probe)

    2b) ESI sensitivity (SIM mode): 100:1 or better.

    2c) The cleaning and maintenance must be simple.

3. **Mass Analyzer**:

    3a) Single quadrapole

    3b) Mass range should be from m/z 10 to 2000

    3c) The Scanning speed capability must be 10,000 amu/s or above

    3d) Sensitivity SIM mode, Unit Mass resolution or better

    3e) Detection of Positive/Negative ions should be user-selectable and the switching time between positive and negative polarity should be minimum

    3f) Auto-tuning and Manual tuning should be possible in both positive and negative modes

    3g) The vacuum system should be turbo- molecular pump (optional one rotary pump).

4. **Software**:

    4a) Single software based on latest windows OS platform must be provided for a seamless control of all the modules.

    4b) Software must be designed for high productivity and high throughput

5. **Accessories**:

    5a) Nitrogen Gas generator with built-in compressor suitable for the above system should be offered with all accessories required to integrate with the main system.

    5b) Branded Computer – with Black & White printer should be offered

    5c) Sample Solvent Filtration Kit with Vacuum system should be supplied

    5d) On-line UPS 10 KVA with minimum 2 hour power backup suitable for the System should be supplied

6. **Warranty**:

    Three years warranty should be offered for the complete System including Nitrogen Generator.

Optional Items

A. **Liquid Chromatograph**:

a1) Analytical HPLC for separation of impure mixtures; Binary gradient pump; manual injector; C-18 and C-8 analytical columns; UV-Vis detector

a2) The interface between LC and Mass Spectrometer should be capable of handling large batches of samples with complex matrices over a long period of time.

a3) A LCMS start-up kit should be supplied as standard

a4) The maintenance and cleaning of interface must be simple

B. **APCI probe**

Terms and Conditions

1. Every tenderer should submit Tender fee of **Rs. 2,500/-.**

2. Every tenderer should submit Earnest Money Deposit (EMD) of **Rs.50,000/-.**

3. The bidder shall have executed "Similar Nature" of single order for an amount not less than Rs.50 lakhs in last three financial years in Government Department/PSU/Autonomous Body or any reputed organization. References order copy along with proof of completion certificate for the project must be provided.

4. Quantities can be increased or decreased by purchaser and bidder has to supply deviated quantities at the rates prescribed and approved by the purchaser in the tender document. Purchase of optional items will be finalized at the time of financial evaluation. However, the bidder must quote the optional items. The bidder should quote all items, partial quote will not be accepted.

5. Original Equipment Manufacturer (OEM) Certificate/ Undertaking. If the bidder is not an OEM, Certificate of authorized dealership/ distributorship from the OEM. A Certificate from the OEM for technical support to the bidder and supply of spares.

6. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.

7. Commercial bids of Short–listed vendors will only be opened. Please note that the Vendor(s) who do not qualify in the technical bid will not be considered for commercial bid.

8. The bidder must not sub-contract the work to other providers.

9. The prices quoted must be on "all-inclusive till destination" basis. The prices quoted should be inclusive of all Taxes Freight, Packing & Forwarding Charges, Handling, Delivery Charges, installation charges etc.

10. The configuration given is the minimum configuration that is/are required. Vendors may choose

to supply higher/better/ enhanced systems/peripherals, but their financial quotes shall be treated as if they have been offered for the specified configuration only.

11. The Bidder shall bear all the costs associated with the preparation of the documents, submission of its bid and we will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

12. The bid shall be typed and shall be signed by the bidder or a person duly authorized to bind the bidder to the contract.

13. The bid shall contain no interlineations erasures or overwriting except as necessary to correct errors made by the Bidder. In such case the person or persons signing the bid shall initial such corrections.

14. The bidder is expected to examine all instructions, forms, terms, condition, and technical specifications in the tender Documents. Failure to furnish all information required by the tender Documents or submission of a bid not substantially responsive may result in the rejection of its bid.

15. The bidders shall give undertaking that all the Components used in the equipment's shall be original make as per the technical specifications submitted and the hardware/software shall be supplied with the authorized license certificates, if found contrary the supplier shall replace the component/equipment with original one at their own cost.

16. Validity of tender: Tender submitted shall remain valid at least for 90 days from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.

17. Delivery and installation: Proposed delivery schedule should be mentioned clearly. **Delivery and installation should be made at Department of Chemistry, University of Kerala, Kariavattom campus, Trivandrum without extra cost (inclusive of documentation, demurrage, customs duty, clearance and transportation charges).** University of Kerala will provide customs duty exemption certificates if required.

18. **. Complete installation, testing and demonstration of the system and day to-day maintenance are to be provided at site.** The Supply and installation of items must be made within four weeks from the date of issue of supply order. Delay in supply will lead to penalty @1% of the value of tender for every week of delay or part thereof. (i.e. exceeding three days will be calculated as one week). If it is found that the items so supplied are not as per supply order specifications, the supply made will be rejected and Earnest Money Deposit will be forfeited.

19. Warranty period will start from the date of successful installation of all the items at site.

20. Service facility: Supplier should mention their details of service setup and manpower in Trivandrum who are responsible for after sales support.

21. In case of any dispute, the decision of the University authority shall be final and binding on the bidders. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

Documents to be uploaded:

1. Signed Compliance Matrix
2. Detailed Technical Brochure
3. BoQ
4. Detailed Financial Bid in pdf format.

Sd/-

Registrar