

Notice Inviting Tender

Professor Subho Mozumdar, Principal Investigator of DST-SERB project EMR/2016/006678, Dept. of Chemistry, University of Delhi, on behalf of The Registrar, Univ. of Delhi, Delhi-110007 invites **Online Open Tender on two bid system** (Technical and Financial bid) from reputed manufacturers or their authorized agents for the **supply and installation of equipment listed below:**

S. No.	Item name	Quantity	Tender Ref. No.
1	UV-VIS SPECTROMETER	01	Ref No. CHEM/SM/2019/01
2	FLUOROSCENCE SPECTROMETER	01	

The complete bid documents can be downloaded from the university website : www.du.ac.in, or from the Central Public Procurement portal: www.eprocure.gov.in. **Physical submission of bids will not be accepted**

A)	Date of commencement of e-tender document and availability on the website: www.du.ac.in and www.eprocure.gov.in	DATE: 14-05-2019 Time 3:00 PM
B)	Last date for sale of bidding document	DATE: 05-06-2019 Time 4:00 PM
C)	Last date and time for submission of bids online	DATE: 05-06-2019 Time 4:00 PM
D)	Date and Time of opening of Technical bids	DATE: 06-06-2019 Time 4:00 PM
E)	Date and time of opening Financial bids	DATE: 09-06-2019 Time 4:00 PM
F)	Address for all communication	Lab-204, Second Floor, Old USIC building, University of Delhi, Delhi-110007

Date: 14-05-2019

Technical specifications for UV-Vis Spectrometer

Equipment: UV-Vis Spectrometer

Tender Ref. No.: CHEM/SM/2019/01

Supply, Installation and commissioning of UV-Vis Spectrometer

S.No.	Components	Tender-Technical Specification
1	Spectral Range:	200 -1000 nm or better.
2	Bandwidth:	Variable from 0.2 – 4.5 nm with min 0.02 nm interval.
3	Monochromator:	Double Monochromators (pre monochromator will not be considered) with separate position for sample and reference cuvette.
4	Photometric range	Min 4.5Abs or better
5	Scan speed	Min 70,000:1 nm/min, and min 150 data points per second for kinetics study
6	Source:	With min life of 6 years. For source with less life equivalent quantity of lamp should be quoted for min 6-year life. Justification to provide in complying the same
7	Low volume sample analysis	System with provision for highly collimated beam with min size to accurately use very small aperture (min 2mm) microvolume cuvettes will be preferable.
8	Accessories	2 pairs of quartz cuvette, Suitable branded computer, monitor, online ups 2KVA with 30 mts back up has to be supplied along with the instrument
9	Warranty	3 years warranty from OEM with detailed scope and Part number should be offered.

The following technical requirements should be strictly met and necessary documentation has to be enclosed along with the main quotation.

- The UV-Vis Spectrometer unit should be optimized for the standard test/reference samples and to be successfully demonstrated at our site.
- Complete product catalogue describing all the required basic and optional items is to be produced.

- Software upgradation should be done by suppliers and when the new versions are released, there should be no additional cost.
- Installation should be done at free of the cost.
- Technical and financial bids must be submitted separately.
- **Any claim confirming above technical specification shall be accepted/ rejected by the technical team of the university based on the authenticity of the document (enclosed along with tender) and the model quoted should be available at the site of the bidder/supplier.**
- Vendor should submit the list of end users in India.

Technical specifications for Fluorescence Spectrometer_

Equipment: Fluorescence Spectrometer

Tender Ref. No.: CHEM/SM/2019/01

Supply, Installation and commissioning of Fluorescence Spectrometer

S.No.	Components	Tender-Technical Specification
1	Measurement type	Fluorescence, phosphorescence and luminescence (chemiluminescence, and bioluminescence).
2	Sensitivity	Signal to noise ratio should be 2500:1 (RMS value) or higher for Raman band of water at 350 nm
3	Minimum sample volume	1.0 ml or lower for a standard 10 mm rectangular cell.
4	light source	Xenon lamp, Lamp life min 6 years or equivalent sets of lamps to quote to cover the 6-year period.
5	Diffraction Grating	Should have Concave Diffraction Grating on both excitation and emission sides.
6	Wavelength range	200 to 850 nm (or better) on both excitation and emission sides
7	Spectral bandpass/width	Variable from 2 to 20 nm on both excitation & emission sides
8	Wavelength resolution	2 nm or better
9	Wavelength accuracy	±0.5 nm or better.
10	Wavelength scanning speed	variable from 30 to 20000 nm/min or higher
11	Detector	High performance photomultiplier detectors for sample and

		reference
12	Operation Software	3-dimensional measurement, wavelength scan, time scan,
13	Accessories	<p>(a) Compatible Computer with laser Printer (black)</p> <p>(b) Standard holder for 10 mm quartz cuvette (4 quantity), 100μl (2 quantity) to be offered. Cuvette should be stoppered.</p> <p>(c) Peltier controlled thermostat cell holder temperature range: 0 to 100 degree Celsius.</p> <p>(d) Polarizer should be included or quoted separately.</p> <p>(d) 2KVA online UPS with 30 min back up should be quoted.</p>
14	Warranty	3 years warranty from OEM with detailed scope and Part number

The following technical requirements should be strictly met and necessary documentation has to be enclosed along with the main quotation.

- The **Fluorescence Spectrometer** unit should be optimized for the standard test/reference samples and to be successfully demonstrated at our site.
- Complete product catalogue describing all the required basic and optional items is to be produced.
- Software upgradation should be done by supplier when the new versions are released there should be no additional cost.
- Installation should be done at free of the cost.
- Technical and financial bids must be submitted separately
- **Any claim confirming above technical specification shall be accepted/ rejected by the technical team of the university based on the authenticity of the document (enclosed along with tender) and the model quoted should be available at the site of the bidder/supplier.**
- Vendor should submit the list of end users in India.

COMMERCIAL TERMS AND CONDITIONS

- Prices should be quoted on FOR Destination Delivery Duty Unpaid Basis Up to department of Chemistry, Delhi University including transportation, insurance etc. by direct representative of company OEM.
- The price bids shall remain valid for a period of 90 (ninety) days from the date of opening of technical bid. Delhi University reserves the right to reject a bid valid for a period shorter than 90 days as non-responsive without any correspondence.

- The delivery period should be within 2 months from the date of Purchase Order or wire transfer. Bids offering delivery period beyond stipulated time period will be treated as non-responsive and will be summarily rejected.
- The prices quoted by the bidder in the price bid are final and no adjustment of the same shall be made on account of any variations in costs of materials or any other cost component affecting the total cost in fulfilling the obligation under the contract. The prices once offered shall remain firm and fixed and shall not be subject to escalation for any reason whatsoever during the currency of the contract.

Important note:

1. All the requirements laid down under the above specifications must be carefully read and understood before claiming your instrument as “complied”.
2. Please provide compliance statement sheet with technical bid and if there is any deviation in above mentioned specifications, the **Technical deviation sheet** should be duly filled highlighted in remarks.
3. Any items required additionally for the purpose of installation should be quoted and supplied along with the basic instrument. In case the items are being provided free, then it should be mentioned free, or if it is at a certain cost, then it should be quoted separately, and included with the instrument cost.
4. **We need the machine to be supplied with all necessary items completely towards the installation and commissioning by the vendor.**