

**DEPARTMENT OF BIOCHEMICAL ENGINEERING AND BIOTECHNOLOGY
IIT DELHI, HAUZ KHAS, NEW DELHI - 110016**

NOTICE INVITING QUOTATIONS

January 17, 2014

Sub: Purchase of UV-Visible Spectrophotometer

Quotations are invited for One no. U.V. Visible Spectrophotometer as per the specifications given below. Technical and financial bids are to be submitted in separate sealed envelopes and placed together in a sealed cover, superscribed "**Quotations for One No. UV Visible Spectrophotometer**" The quotations have to be submitted to "**Prof AK Srivastava, Department of Biochemical Engineering and Biotechnology, Block I, Room 229, IIT Delhi, Hauz Khas, New Delhi 110016**" on or before 10th February 2014.

Specifications: One no. UV-Visible spectrophotometer

Optical Design: Double Beam monochromatic

The instrument must be capable of working in multiple data collection modes (i.e., single wavelength, scanning & kinetics modes).

Wavelength range: 190-1100 nm

Wavelength reproducibility: ≤ 0.07 nm

Wavelength Accuracy: ± 0.06

Spectral bandwidth: 1.5 nm.

Photometric accuracy: ≤ 0.001

Photometric stability : ≤ 0.0005 Abs/Hour

Photometric range upto 3.5 Abs or more.

Stray light: At 220 nm (10 g/L NaI ASTM method) ≤ 0.018 %T

Light source : Xenon flash lamp, should illuminate while taking the reading thereby saving energy and maximizing lamp life

(Slew) / Scan rates of 15000nm/min or better.

Data collection upto 60 data points/second for single wavelength kinetics measurements.

Portability of the instrument. The spectrophotometer should be operated using either a desktop computer or a laptop, via a USB cable.

Software -Based on Microsoft Windows XP. Set up methods for quantitative measurements, Kinetics, temp controlled applications. Scan and quantitative functions. Different curve fitting technique like Linear, Linear direct and Quadratic curve fits etc. (BUILT IN /BACK UP COPY OF THE SOFTWARE SHOULD BE INCLUDED)

Cuvettes: Pair of Quartz Cuvettes of capacity 3.5 mL. (SHOULD BE INCLUDED)

Quoted System should be able to upgrade with low volume measurements (0.5 μ L) whenever desired.

Suitable Computer for Spectrophotometer. (Please quote as OPTIONAL)

Terms and Conditions -

1. Please quote F.O.B. & CIF New Delhi prices separately.
2. Technical bid should contain **compliance chart** based on specifications as per NIQ, but must not contain any commercial information
3. The quotations should be in the currency of the country of origin and should be valid for at least three months.
4. Please attach all the technical literature and a list of similar installations done in India.
5. The warranty on the equipment should be clearly specified.
6. If the quote is being submitted by the representative of the Principals/manufacturer themselves, a valid Agency ship/Dealership Certificate authorizing the agent to quote to IIT Delhi on behalf of the Principals should be enclosed.
7. Complete set of manuals for the operation of equipment should be given.
8. Clearly specify the installation requirements—such as space, power, frequency, environment (Temperature and humidity) etc.
9. The institute reserves the right to accept or reject any / all the quotations without assigning any reasons thereof.
10. Free Installation & training should be provided.