

**Indian Institute of Technology Delhi
Department of Chemical Engineering**

UV-Visible Spectrophotometer

Date: 31st July, 2011

Ref:

The Department of Chemical Engineering invites quotation for one UV-Visible Spectrophotometer with the following specifications.

- Should be PC controlled with double beam optical system.
- Should hold Deuterium Light source with monochromator.
- Should operate at wavelength range of 190 to 1100nm.
- Should be capable of measuring sample absorbance, transmittance, concentration, absorption spectrum.
- Should have wavelength accuracy of +/- 1nm.
- Should have Spectral bandpass of ≤ 1.5 nm.
- Should have photometric accuracy of ± 0.002 Abs to ± 0.004 Abs
- Scanning Speed: < 1 to 6000 nm/min (with slew speed of 31000nm/min)
- Should have Photometric Range: > 3.5 A and Resolution:> 1.6 (peak-to-valley ratio; toluene in hexane)
- Should have Wavelength Accuracy: ± 0.8 nm (full range 190 to 1100 nm)
- Should operate at 100-240V, 50-60 Hz.
- Should have silicon photodiode detectors.
- Should have automatic wavelength calibration at start up.
- Should have integral display with graphical user interface.
- System should have built in applications software for wavelength scanning, standard curve, enzyme kinetics, substrate concentration, Multi wavelength equation entry.
- Should have integrated software for post run analysis with a PC.
- Clearly mention the **cuvette volumes** and providing the quartz/glass cuvettes along with it.
- **Warranty: A comprehensive on-site warranty for 3 years (including the spare parts and labor charges) should be provided.**

Terms and conditions

- The technical and commercial bids must be submitted in separate sealed envelopes subscribed with “**Technical Bid**” or “**Commercial Bid**” as appropriate. Both the technical and the commercial bids should be enclosed in an envelope subscribed “**Quotation for UV-Visible Spectrophotometer**” and should be submitted to the undersigned.
- The supplier must be an authorized dealer/distributor of the principal/manufacture and should furnish an authorization certificate from the principal/manufacture. Quotations without authorization certificate will be rejected.
- A copy of order enlisting the Indian agent with Department of Expenditure, Ministry of Finance should be enclosed.
- CIF New Delhi prices should be quoted with all the terms and conditions i.e. applicable taxes, installation, warranty and delivery schedule.
- Quotations must be valid for at least three months from the date of the NIQ.
- The supplier should provide a list of institutions in India with the details of the syringe pumps supplied and with the contact details of the institution/department.
- A special discount/rebate wherever admissible keeping in view that supplies are being made for educational purpose in respect of public institution of national importance may please be indicated.
- The institute reserves right to accept or reject any or all quotations without stating the reasons thereof.
- The quotations should reach Dr. Sanat Mohanty, Block-II, Room-273, Chemical Engineering Department, Indian Institute of Technology-Delhi, Hauz Khas, New Delhi 110016 latest by 5.00 pm on 24th August,2012

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