

Indian Institute of Technology-Kanpur
Department of Biological Sciences & Bioengineering

Enquiry No.: IITK/BSBE/JGR- 5620/2015-16/05

Enquiry date: 10-06-15

Last Date: 26-06-15

Enquiry for the Spectrophotometer

We would like to purchase a Spectrophotometer for our laboratory. Offered product should take into account specifications given below.

EQUIPMENT: SPECTROPHOTOMETER

TECHNICAL SPECIFICATION

Computer Controlled low volume UV-VIS Spectrophotometer with following specifications

Wavelength Range: 190-840 nm or better

Minimum Sample Size: 0.5 μ L

Path length: 1 mm (auto-ranging to 0.05 mm)

Light Source: Xenon flash lamp

Detector Type: 2048-element linear silicon CCD array

Wavelength Accuracy: +1 nm

Spectral Resolution: <1.8 nm (FWHM @Hg 253.7 nm)

Absorbance Precision: 0.002 absorbance (1 mm path)

Absorbance Accuracy: \pm 2% (at 0.76 absorbance at 257 nm)

Absorbance Range: 0.02 -300 (10 mm equivalent)

Detection limit: 2 ng/ μ L dsDNA

Maximum Concentration: 15,000 ng/ μ L (dsDNA)

Measurement Time: < 5 seconds

Options should also be available for use with cuvette measurements:

Path length: includes pathlengths of 10, 5, 2, and 1 mm.

Stir speed: speed settings range from 1-10.

Heater : 37 $^{\circ}$ C heating facility of cuvette holder shall be offered with the accuracy of \pm 0.5 $^{\circ}$ C. When selected, the current temperature of the cuvette shall be displayed at software screen.

Heating Time: 1-10 minutes for the cuvette holder to reach 37 $^{\circ}$ C.

Windows based software shall be offered to display data in graphical form and numerical form. Powerful, user-friendly software with ten preconfigured modules and method editor

Note: Branded PC, Printer, two pair 10 mm optical path x 12.5mm Exterior width Silica Cuvette shall be offered.

Terms and Conditions:

- Cost of the items including relevant accessories with technical specification should be mentioned in detail.
- Prices should include delivery up to IIT Kanpur.
- Warranty should at least be for three year after installation.
- Validity of quotation should be at least for 90 days.
- Delivery period: within 30days from the date of purchase order kindly send your best offer (Technical offer separately) and the quotation along with your authorized dealer certificate to address given below.



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