



DEPARTMENT OF BIOPHYSICS,
MOLECULAR BIOLOGY & BIO-INFORMATICS

UNIVERSITY OF CALCUTTA

Phone : 2350-8386 / 6387
2350-6396 / 1397
Extn. : 321

UNIVERSITY COLLEGE OF SCIENCE
92, Acharya Prafulla Chandra Road,
Kolkata-700 009, INDIA

NOTICE INVITING QUOTATION

Sealed quotation along with all necessary papers are invited from bona-fide, efficient & eligible vendors for **Double Beam UV VIS Spectrophotometer** in Dept. of Biophysics, Molecular Biology and Bioinformatics, University of Calcutta (Rajabazar Science College Campus) as per the following specifications within seven days from the publication of this notice.

Name of Instrument: - Double Beam UV VIS Spectrophotometer

Specifications:

Microprocessor based UV-VIS Spectrophotometer with high resolution LCD display and dedicated soft keypad, for operation on 220V / 50Hz.

- Stand-alone operation or complete control through PC with PC software supplied as standard
- True double beam optics with aberration corrected concave blazed holographic grating in Czerny – Turner mounting for high energy throughput and high quality monochromatic light
- Wide wavelength range of **1,100 nm to 190 nm**
- High resolution **1 nm** spectral bandwidth over **entire** wavelength range
- Wavelength setting and display in steps of 0.1nm
- Wavelength accuracy of $\pm 0.1\text{nm}$ for D_2 spectral line
- Wavelength reproducibility of $\pm 0.1\text{nm}$
- Variable wavelength scanning speed of 3,000 nm/min to 2 nm/min
- Ultra low stray light of $<0.02\%T$ at 220nm with NaI filter
- Wide Photometric range of -4 to +4 Abs and 0 to 400 %T
- High Photometric Accuracy of ± 0.002 Abs at 0.5 Abs
- High Photometric Repeatability of ± 0.001 Abs at 0.5 Abs
- Very low baseline drift of 0.0003 Abs/hour
- High baseline flatness of ± 0.0006 Abs over entire wavelength
- Ultra low Photometric noise of <0.00005 Abs
- Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover
- High sensitivity matched pair Silicon Photodiode detector
- 5 USB ports for high speed PC and printer connectivity, data storage and transfer through USB pen drive
- Guaranteed compliance with all Pharmacopoeial requirements
- Built in validation program, diagnostic and security functions
- All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in stand alone and PC mode. Additionally Multi-Component measurement available in stand-alone mode.
- Large sample compartment compatible with wide range of accessories

Sudip Kundu

Prof. Sudip Kundu 15/06/2017

Head
Department of Biophysics
Molecular Biology & Bioinformatics
University of Calcutta