University of Calcutta

University College of Sc.Tech, Engg. Agril & Vet. Sc.

Department of Biochemistry

35, Ballygunge Circular Road
Kolkata- 700 019, India

Enquiry No.: CU/BIO/Quotation/FIST-2nd/11-12 Date: 23.12.2011

NOTICE INVITING QUOTATION FOR SUPPLY OF Circular Dichroism Spectrometer and Accessories

Quotations for supply of **Circular Dichroism Spectrometer and Accessories** as per details at **ANNEXURE-I**, in sealed covers, are hereby invited so as to Head, Department of Biochemistry, CU

Terms:

1. Address of the firm submitting the quotation and the Officer, to whom the quotation is addressed, must appear distinctly on sealed covers. Further, on the top of the outside sealed cover, the followings are to be written:
   QUOTATION FOR SUPPLY **Circular Dichroism Spectrometer and Accessories** TO THE DEPTT. OF BIOCHEMISTRY, CU.

2. Certificates**:** Xerox Copies VAT/CST Certificate, PAN, Trade License, Certificate of Incorporation and Authorized Agency Certificate (duly attested) of the firm will have to accompany the quotation to be submitted.

3. Quotations are to be in Indian Rupees/Foreign currency.

Head
Department of Biochemistry
University College of Sc.Tech, Engg. Agril & Vet. Sc.
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Last date of Submitting tender papers: 09-02-2012 (up to 17.00 Hrs) at Office, Department of Biochemistry, CU, 35, Ballygunge Circular Road, Kolkata: 700019.

Opening of Bids: 14-02-2012 at Office of the Pro-Vice Chancellor (BA & F), University of Calcutta, 87/1, College Street, Kolkata: 700073

Encl.: Annexure-1

Specifications for a Circular Dichroism Spectrometer

Light source	: 450W Xe arc lamp
Wavelength range	: 163 – 900 nm
Wavelength accuracy	: ±0.2 nm (163 – 180 nm), ±0.1 nm (180 – 250 nm)
Wavelength Repeatability	: ±0.05 nm (163 – 250 nm)
Modulator	: Piezoelectric Modulator
Spectral Bandwidth	: 0.01 to 15 nm
Stray light	: less than 0.0003% (at 200 nm)
Slit Width	: 1 to 3000 µm
Baseline stability	: ±0.03 m deg. /hr (SBW: 1nm, Response: 32 sec, wavelength: 290 nm)
Shutter	: Computer / Manual controlled
Scan Mode	: Must be Step Scan and Continuous Scan (fixed response and auto response system)
Scanning Speed	: 1 – 10,000 nm/min (continuous scan) 0.025 – 10 nm/min (continuous scan) 0.1 – 100 nm/min (step scan) 0.5 msec – 60 min (time change)
CD full scale	: ±10, 200, 2000 m deg.
CD resolution	: 0.0005 m deg. (at ±10 m deg. Full scale) 0.01 m deg. (at ±200 m deg. Full scale)
RMS noise	: 0.030mº at 185nm, 0.020mº at 200nm, 0.020mº at 500nm (16 second oversampling, 1nm bandwidth)
Detection modes	: Circular dichroism & double beam Absorbance simultaneously and Fluorescence Detected CD (FDCD)
Data Acquisition	: Four channel simultaneous data acquisition
Absorbance Measurement	: 0 to 5 Abs
Nitrogen Gas Displacement	: Atmosphere in the light source unit, monochromator and sample chamber is displaced using dry nitrogen gas
Peltier thermostatted FDCD	: Should be included in the main system
Rectangular Cell Holder	: Single Cell Peltier Rectangular Cell Holder, option for low volume Measurement.
Rectangular Cells	: 0.5 mm , 1mm, 2mm, 5mm, and 10mm (Each)
Peltier Thermostated Cell holder	: Single cell holder CD Mode
Data Station	: Requires PC with dual core, 3 GHz, 4 GB RAM, 4 MB L2 Cache, 500 GB HDD, DVD/R/W, Windows XP and Laser jet colour Printer
Software	: PC controlled Data Acquisition Software for ✓ Secondary Structure analysis ✓ Denatured Protein analysis ✓ Multi-wavelength variable temperature programming ✓ Curve fitting analysis ✓ Publication quality printing with customizable templates ✓ System Validation program
Diffuse Reflectance CD for powder sample	
Fluorescence Emission Monochromator	
Linear Dichroism CD	
Magnetic CD	

The supplier must have installed at least 5 systems in last 5 years in this region
The supplier must have full-fledged service station in eastern India.