

UNIVERSITY COLLEGES OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF CHEMISTRY



92, ACHARYA PRAFULLA CHANDRA ROAD
CALCUTTA-700009, INDIA

PHONE : 350-9937/1014/1857/1397
FAX : 910-33-351-9755

The....., 200.....

QUOTATION NOTICE

No.: CU/CHEM/CSIR-NG/Equip/Spectro/1/ 2018-19

Dated: 21.01.2019

Quotations are invited from authorized parties to supply one "UV-VIS SPECTROPHOTOMETER" for the operation of CSIR, India sponsored project under Prof. Nikhil Guchhait (PI). Specifications of the items are given separately. Suppliers are hereby requested to submit their quotations along with proper documents (Current trade licence, Service Tax registration certificate, PAN No., copy of registration certificate with statutory authorities, GST and other credentials) in a sealed envelope addressed to the PI of the project on or before 30.01.2019. The price should be inclusive of relevant taxes/charges, showing break-up. Warranty, on-site service/support should be mentioned clearly. The authority reserves the right to accept/reject any quotation without showing any reason thereof.

Note: - Parties must mention make & model no. of the equipment offered by them with detailed specification. Also provide a list of Indian users with similar type of specification.

Nikhil Guchhait
Prof. Nikhil Guchhait (PI)
Department of Chemistry
University of Calcutta
92, A. P. C. Road
Kolkata-700009

Prof. Nikhil Guchhait
Department of Chemistry
Calcutta University
92, A.P.C. Road, Kol-700009

Chanda Mukhopadhyay
Convener 21-01-2019
(Departmental Purchase
Committee)
Convener, Departmental Purchase Committee
Department of Chemistry
University of Calcutta


21.01.2019
Prof. A. R. Das
Head
Department of Chemistry
University of Calcutta
92, A. P. C. Road
Kolkata-700009

Prof. Asish Ranjan Das
Head, Department of Chemistry
University of Calcutta

Specification of the Instrument

Name of the Items: **DOUBLE BEAM UV-VISIBLE SPECTROPHOTOMETER**

Items No.	Particulars/ Items	Description of items	Quantity required
1	DOUBLE BEAM UV-VISIBLE SPECTROPHOTOMETER	<p>DOUBLE BEAM UV-VISIBLE SPECTROPHOTOMETER: Make: Hitachi/ Shimadzu/Perkin Elmer/Agilent SPECIFICATIONS :</p> <ul style="list-style-type: none"> * Optical system : Czerny-Turner mount, Double beam monochromator Groove 1200/mm minimum * Wide wavelength range: 190 to 1,100 nm * High resolution spectral band width: 1 nm over entire wavelength range * Wavelength setting and display in steps of 0.1nm * Ultra low stray light : 0.05 % or less * Wavelength accuracy: ± 0.1 nm for D₂ spectral line * Wavelength repeatability/ reproducibility: ± 0.1 nm * Photometric range of ~ -4 to $\sim +4$ Abs and 0 to ≥ 400 %T * Photometric accuracy: ± 0.002 Abs (0 to 0.5 Abs) (certified according to NIST SRM 930) ± 0.004 Abs (0.5 to 1.0 Abs) * High Photometric repeatability: ± 0.002 Abs or less (0 to 1.0 Abs) * Variable wavelength Scan speed: 2nm/min to $\geq 3,000$ nm/min * Response : Fast, Medium, Slow * Baseline stability: < 0.0005 Abs/h (after one-hour light source turned ON) * Ultralow Photometric Noise level: < 0.0001 Abs (RMS, 260 nm or 700nm, 0 Abs) * Baseline flatness: ± 0.0009 Abs (200 to 950 nm) * Light source : High intensity Tungsten-Halogen and Deuterium lamp with automatic changeover or Xenon flash lamp * Detector : High sensitivity Silicon photodiode * Cell holder : Single/Multiple cell holder * All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan etc. * QUARTZ CUVETTES (two) – Volumes 3.5ml, Path length 10 mm * Suitable desktop / laptop computer with operative software (if required to run the instrument) * Operational electrical requirement: 220V/50Hz * 1 KVA line interactive UPS (15 min backup) * Operational manual * 24 months warranty from the date of installation <p>Optional: * Constant-Temperature Water circulated cell holder with stirrer-1 no.</p>	1


 Prof. Nikhil Guchhait
 Department of Chemistry
 Calcutta University
 12, A.P.C. Road, Kol-700009