

Department of Materials Science & Engineering

Indian Institute of Technology Kanpur

Call for Quotation: UV-Visible Spectrophotometer

IITK/MSE/vverma/UVVIS

DATED 24/02/2012

CLOSING DATE : 02/03/2012

This is a call for quotations from the prospective suppliers for UV- Visible Spectrophotometer with the following minimum specifications/requirements:

UV – Vis Spectrophotometer

Key Specifications:

S. No.	Specification	Description
1	Optical Design	Dual Beam optics
2	Monochromator	Czerny Turner Monochromator
3	Spectral Bandwidth	Fixed 1.0 nm
4	Resolution	>1.5
5	Light Source	Deuterium 190-400 nm Tungsten 340-1100 nm
6.	Detectors	Matched dual silicon photodiode detectors
7	Photometric Modes	Absorbance(Abs), Transmittance(%T), Energy(E)
8	Wavelength Range	190 nm to 1100 nm
9	Wavelength Accuracy	± 0.8 nm at 656.1 nm and 486.0 nm
10	Wavelength Repeatability	± 0.1 nm at 656.1 nm, standard deviation of 10 scans
11	Wavelength Scanning speed	Wavelength slew rate: about 1900 nm/min Wavelength scan rate: about 10 – 2400 nm/min, user selectable

12	Maximum Data Resolution	0.1 nm
13	Photometric Range	Transmittance: -0.1 to 200 %T, Absorbance: -1.0 to 4.0 Abs
14	Photometric Accuracy	± 0.005 Abs (at 1Abs) Measured using NBS 930 standard filter
15	Photometric Noise	< 0.0004 Abs RMS, 500 nm, 0A
16	Photometric Drift	± 0.0007 A/hr after 2 hrs of warm up
17	Stray light	>3.3 Abs at 220 nm with NaI and 340 nm with NaNO ₂ >2.0 Abs at 198 nm with KCl
18	Baseline Flatness	$<0.0015A$, 200 – 800 nm

Please send all technical specifications of the product being quoted and applications details about the system along with the quotation. You may highlight any special features of your product along with support evidence/data sheets.

Prospective suppliers may submit **Competitive quotation** for the UV-Vis Spectrophotometer in sealed envelope latest by **2nd March, 2012** to the following address:

Dr. Vivek Verma
410, Faculty Building
Materials Science & Engineering,
Indian Institute of Technology Kanpur
Kanpur 208 016
Uttar Pradesh, India