

SPECIFICATION FOR UV-VIS SPECTROPHOTOMETER

Analysis of solids and liquid sample

Optics	Double beam spectrometer with monochromator with 1050 lines / mm or more and Beam splitter
Sources	Pre-aligned deuterium and tungsten and tungsten halogen lamps with automatic source change.
Detector	Solid state detector/ PMT
Wavelength range	190 - 1100 nm
Stray radiation	minimum 0.02 % T at 220, 340, 370 nm
Wavelength accuracy	+/- 0.1nm
Wavelength repeatability	: must be minimum +/- 0.1 nm
Bandpass (Variable)	: 0.5, 1, 2, 5, 20 nm (Variable bandwidth)
Baseline flatness with Slit of 0.5 nm	must be ± 0.00005 A
Photometric repeatability	+/-0.001 A at 1 A
Photometric accuracy	± 0.005 Abs
Photometric stability	± 0.0002 Abs/ hr
Photometric noise less than	± 0.00005
Baseline flatness	± 0.001 A
Resolution	should be minimum 0.5 nm
Stability	must be minimum 0.00015 A/h
Software	Windows based operating Software. with Computer, laser Printer & 2 KVA UPS

Accessories:

- Quartz cuvette 10mm path length- 1 pair. **Cuvette**
 - Thin film sample holder for the analysis of thin films.
 - Integrating Sphere attachment for the analysis of powder samples
- Warranty: 3 years warranty for the complete instrument



Beula C

*Dr. Renjama Devi B.
HOD, Chemical.*