

Specification for **UV-VIS SPECTROPHOTOMETER**

TECHNICAL DESCRIPTION	
Principle	UV/Vis spectrometer with LOW temperature accessories with PC control
Optics	Double beam sealed, quartz coated, lens free system,
Grating	Concave holographic grating with 1030 lines/mm or better.
Sources	Pre-aligned deuterium and tungsten-halogen lamps with automatic switch over
Measurement wavelength Range	200 – 1100 nm or better. (standalone instrument without using any accessories)
Stray Radiation/Light	Min 0.01 %T
Wavelength Accuracy	Minimum +/- 0.1 nm
Wavelength Reproducibility	Minimum +/- 0.06 nm
Band-pass/Band width	Minimum 4 steps (0.6 to 4nm or better)
Photometric Accuracy at 1A	Min +/- 0.001 A
Photometric Reproducibility (at 1A)	Min 0.001 A
Photometric Stability (at 1A) at 500nm	Min 0.00015 A/h
Baseline Flatness(1nm slit)	Min \pm 0.001 A
Photometric Noise Level at 500nm/0A(1nm Slit)	Min 0.00005 A RMS
Standard Software	Scan, Time Drive, Wavelength Programming, Concentration, Bio Assay, Kinetics, Oligo Quant, Validation, Report Builder, Arithmetic etc. should be included as standard feature of the s/w.
Standard Accessories	Quartz cuvette with 10mm path length 4 numbers is to quote.
Local Accessories	PC with 2KV UPS is to be offered with the system.

Note:

1. The above specification should be supported by a printed and authentic literature with specification sheet.
2. Price should be quoted in C.I.P basis only.
3. The Institute reserves the right to accept or reject any one or all the quotations without assigning any reason.