

## Specifications for Double Beam UV-VIS Spectrometer

<b>Instrument</b>	Microprocessor based UV-VIS Spectrophotometer with high resolution LCD display and keypad. In addition to microprocessor control, must also be operated using a PC for control and data acquisition.
<b>Optics</b>	Double beam with holographic grating in monochromator
<b>Wavelength range</b>	190-1100nm
<b>Spectral bandwidth</b>	Variable (specify the range) or fixed (Better than 2nm)
<b>Wavelength accuracy</b>	Better than $\pm 0.3$ nm
<b>Wavelength reproducibility</b>	Better than $\pm 0.1$ nm
<b>Baseline stability</b>	Better than 0.0004 Abs/h
<b>Photometric accuracy</b>	$\pm 0.002$ Abs or better in 0-0.5 Abs, $\pm 0.004$ Abs or better in 0.5-1.0 Abs, $\pm 0.3\%$ (0-100%T)
<b>Photometric reproducibility</b>	$\pm 0.001$ Abs or better in 0-0.5 Abs, $\pm 0.002$ Abs or better in 0.5-1.0 Abs, $\pm 0.15\%$ (0-100%T)
<b>Monochromator</b>	Grating with min 1200 l/mm
<b>Lamps</b>	Should be provided with Tungsten halogen lamp and Deuterium lamp with automatic changeover
<b>Detector</b>	High sensitivity matched pair silicon photodiode detectors
<b>Cuvettes</b>	2 pairs of Quartz cuvettes of 10mm path length.
<b>Computer, software and printer</b>	Desktop computer should be provided by the supplier with preloaded software along with original CDs. A network printer should be quoted separately.
<b>Installation and training</b>	Installation and training should be provided at the customer site. Installation requirement should be intimated in advance.
<b>List of users</b>	A list of users with full contact details (in India) of the proposed system should be provided.
<b>Warranty</b>	A minimum of 2 (two) years warranty is required. A Comprehensive Annual Maintenance Contract (CAMC) for additional 3 (three) years must be included. (Quote separately).
<b>Customer service</b>	Historical data should be provided from current users.
<b>UPS</b>	Suitable UPS should be provided in a separate quote.
<b>Company profile in India</b>	Document on the market share of the company in India should be provided. Proof of authorization from the parent company to sell and service the equipment in India must be supplied by the vendor.