

Specifications for FTIR Spectrometer for teaching laboratory

Instrument	FTIR spectrometer for teaching laboratory
Optics	Sealed and dessicated, all mirrors gold coated
Spectral range:	400-4000cm ⁻¹
Spectral resolution:	2cm ⁻¹ or better
Wavelength accuracy	≤0.05 cm-1 @ 1576cm ⁻¹
Stability 100% line:	≤0.08%
Interferometer:	Permanently aligned, high stability
Detector:	High sensitivity DLATGS
A/D convertor:	True 24 bit dynamic range
Measurement accessories:	Transmission using KBr pellets, liquid cells and gas cells
Interface:	Appropriately interfaced to a PC using Windows Operating system, 240 AC/50 Hz operation with Indian electrical connectivity
Software:	Software for instrument control, data acquisition, data processing (such as FFT, baseline correction, spectral subtraction, etc.). Details of software must be clearly mentioned.
Accessories:	Must include basic accessories, such as KBr pellet holder, liquid cells. Pellet press (Indian make) for making KBr pellets with all safety features.
Extra accessories:	Please quote for ATR cell and gas cell.
Installation and training	Installation and training should be provided at the customer site. Installation requirement should be intimated in advance.
List of users	A list of users with full contact details (in India) of the proposed system should be provided.
Warranty	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).
Customer service	Historical data should be provided from current users.
UPS	Suitable UPS should be provided in a separate quote.
Company profile in India	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.