

Annexure-V

Compliance report

(I) Name of Instrument : Fourier Transform Infrared (FTIR) spectrometer:

Sr. No.	Specification of e-Tender	Specification of Bidder/Vendor	Deviation (Yes/No)	Remarks
1	<p>Specifications for Fourier Transform Infrared (FTIR) spectrometer:</p> <ul style="list-style-type: none"> • Universal Sampling modules should be available for the analysis of solid, liquids, & powder samples. Liquid sample cell should be included in system. • The equipment should have wavenumber range of: 7600-350 cm^{-1} or better. • FTIR system must have Signal to Noise Ratio of 47,000: 1 or better, peak-peak, 1 minute (at 4 cm^{-1} resolution) for a range of at least 100 cm^{-1}. • Standard resolution should be 0.5 cm^{-1} or better along with variable resolution. The wavelength precision should be 0.01 cm^{-1} or better. • Optics and interferometers with good stability for operation under normal conditions. • Interferometer must have KBr beam splitter for better performance. • Detector should be DTGS/DLaTGS or better. • Source intensity should be consistent throughout its life and laser should be solid state or better. • 3 Years warranty on full system (including source, laser, interferometer, detector, diamond ATR etc) of FTIR should be quoted. 3 years additional extended warranty should be also quoted. • Spectrometer should be controlled with computer based software compatible with Windows 7 or latest Window version. 			

	<ul style="list-style-type: none"> • Humidity and moisture protection should be quoted for FTIR set-up with at least 3 years of working warranty. • Pure Monolithic Diamond ATR should be quoted for the routine sample analysis ranging from pH 1-14. • Automatic background correction standard for CO₂ and H₂O should be quoted. • FTIR system should be compatible and upgradable for temperature dependent and FTIR microscopy study in future. • All the required parts for proper running the FTIR system like power cord, computer and computer interface, software etc should be included with FTIR system. • Supplier should provide the user list from IITs/NITs/IISER/CSIR labs or equivalent premier institutions. • The bidder should provide compliance point by point with technical proof. • The bidder organization must have ISO certification and also provide the documentary proof. 			
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Name and authorized signature

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