**Specifications for FTIR Spectrometer**

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| Wavelength Range | 5100–600 cm -1 with moisture resistant long durable ZnSe Optics (with ZnSe beam splitter) |
| Wavenumber Accuracy | 1.5 cm-1 or better |
| Wavenumber reproducibility | 0.005 cm-1 or better |
| Spectral Resolution | < 2 cm -1 |
| Peak to peak noise | 30,000 : 1 for 1 minute, at 4 cm-1 without apodization |
| Source | Mid IR source, user friendly with 5 years free replacement warranty |
| Reference Laser | Solid state laser with 10 years warranty |
| Interferometer | permanently aligned with minimum 10 years warranty. |
| Detector | Linear DLaTGS Detector (inferior detectors like LiTaO3 not accepted) |
| Optics | Completely sealed and desiccated optics with life indicator |
| Software | Suitable software for Spectral collection, Quantitative analysis, baseline correction, smoothening, derivatization, spectral deconvolution, library search etc |
| Accessories | 1) Transmission accessory should be quoted  2) liquid demountable cell for liquid sample should be provided |
| Installation and Familiarization | Installation and training to users should be given at our laboratory |