**Tender specification for Fourier Transmission Infra-RedSpectrometer (FTIR)**

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| Wavelength Range | 5100–600 cm-1with moisture resistant long durable ZnSe Optics. |
| Wavenumber Accuracy | * 1. cm-1or better
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| Wavenumber reproducibility | 0.005 cm-1 or better |
| Spectral Resolution:  | <2 cm-1 or bettet |
| Peak to peak noise: | 30,000: 1 for 1 minute, peak to peak at 4 cm-1 without apodization. |
| Source | Mid IR source, user friendly with 3 years free replacement warranty |
| Reference Laser | Solid state laser with five years warranty. |
| Interferometer | Permanently alignedwith minimum five years warranty. |
| Detector | Linear DLaTGS Detector  |
| Optics | Completely sealed and desiccated optics with life indicator |
| Software | Suitable software for Spectral collection, Quantitative analysis, baseline correction, smoothening, derivitazation, spectral deconvulation, library search etc. |
| Accessories | 1. Diamond ATR accessory should be quoted for analysis of corrosive and reactive solids, liquids, resins, powders, gels etc.
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| Installation and Familiarization  | Installation and training to users should be given at our laboratory by a trained Application engineer. |