

**Technical Specification for Fourier Transformation Infrared Advanced Microscope (FTIR  
Microscope) Qty 1**

**1.0 Eligibility Criteria**

S.No	Eligibility Criteria	Complied /Not Complied	Reference Page No
1.	The supplier/manufacturer must have supplied and installed FTIR Microscope at least 3 in last 3 Years worldwide. Proof of supply and installation and location of the installation must be provided along with Technical Bid..		

**2.0 Technical Compliance**

Technical Specifications			Complied /Not Complied	Reference Page No
S.No	Specification	Detail		
1.	Materials	Polymers, polymer-based, natural materials including coir, baggage, etc., grease, lubricants etc.		
2.	Measurement methods	Transmission, reflective, ATR		
3.	Optical Systems	8x or higher		
4.	Detector	MCT detector or its equivalent		
5.	Spectral resolution	should be better than 2 cm-1		
6.	Spectral range	Better than 5000 - 650 cm-1		
7.	Sample dimensions	approximately 100 micron onward to 10 mm thickness		
8.	Software	Complete software with all required libraries to be included		
9.	Computer System	PC to be included that meets software requirements		
10.	Quote must include	Sample holders for fibres, liquids, thin sheets motorized stage, macrosampling unit		
<b>Additional Terms and Conditions:</b>				
1.	The equipment must have One Year warranty. Quote must include warranty and AMC cost for the 2nd and 3rd Year. Total cost for 3 years will be considered for the finance bid price comparison.			
2.	The Quote must also include installation and delivery at IIT Madras.			
3.	All necessary manuals, perpetual license of software (necessary for operation and maintenance) must be provided. Software Key must be provided for installation at other systems, in case of fault in the supplied system or software reinstallation situations.			
4.	Quote must include essential cables, connectors, standard samples, consumable needed			