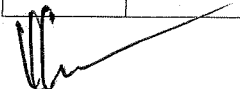
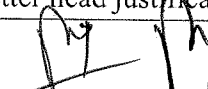



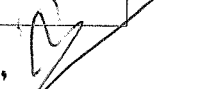
Technical Specifications of FT-IR Spectrophotometer

S. No.	Description	Technical Details
1.	Basic System:	High-performance, high-resolution software controlled FTIR to comply all national & international food regulations.
2.	Spectral Range:	8000-350cm ⁻¹ or better
3.	Beam Splitter:	Ge Coated KBr or Suitable as per system requirement,
4.	Resolution:	0.6 cm ⁻¹ or better or suitable resolution to comply all national & international food regulations.
5.	Signal to noise ratio:	14,000:1 peak to peak/RMS 4 cm ⁻¹ resolution, 1 minute or better or suitable resolution to comply all national & international food regulations.
6.	Light source:	High-energy ceramic source
7.	Interferometer:	Michelson, Sealed and desiccated
8.	Detector:	DLATGS/DTGS/ LiTaO3 Detector with temperature control mechanism or Suitable as per system requirement
9.	Wavenumber Accuracy	0.05 cm ⁻¹ or better
10.	Internal validation unit	The system must have an internal validation unit or Transmission module and should provide built-in NIST Traceable Polystyrene film for instrument calibration with 5 years validity certificate.
11.	Software:	Windows 10 based latest software. System should have self-diagnostics function. <ul style="list-style-type: none"> • Software should have provision for creation of user library. • Software should automatically recognize the attached accessories like ATR & DRA. • Software should be able to perform Identification, Quantification & Spectrum Analysis. • Software should be able to compare the collected spectrum with a spectral library and should finds the best spectral match automatically.
12.	Library:	Original and licensed library of at least 10,000 spectra for organic, inorganic, polymers, plasticizers, additives, common white powders, Georgia forensic Library, drug/pharma samples etc.
13.	Accessories:	1) Supplies: Transmission Cell for Liquids, Gels, Pastes with NaCl Windows, Pellet Holder, KBr die set, KBr Powder, Agate Mortar Pestle – 1 Each. 2) Hydraulic Press 15-ton capacity 3) i5 computer with suitable configuration for software compatibility
14.	Warranty:	One Year against manufacturing defect on complete instrument. 10 years warranty on interferometer, laser and source.
15.	Documents:	IQ/OQ to be performed during installation and documents to be provided by the supplier/manufacturer.
16.	Upgradeability:	Diamond ATR for Liquids, Powder, Film samples & Microscope. Vendor should attach application notes in this regards.
17.	Important Note:	Vendor should clearly mention make and model, also enclose Catalogue/Data sheet of the Model quoted in support of the above-mentioned Specifications otherwise their bids will be rejected. No letter head justifications will be accepted.

1. 
5. Satman

2. 
6. Jim

3. 
7. BS

4. 
8. Keerth Kumar