



S.R.T.M.UNIVERSITY,VISHNUPURI, NANDED

Corrigendum for E-Tender NO.08-2025

Please refer to our E-Tender No.08-2025 (e-Tender ID No.2025_SRTMU_1190176_1) for "Purchase of Fourier Transform Infra Red (FTIR) Spectrometer Under PM-USHA Budget" which was published on 16th June 2025. Now, it is corrigendum for Regarding Changes in Technical Specification Criteria as mention below

Changes of Technical Specification:

Sr. No	Technical Specification as per Tender document
1	<ul style="list-style-type: none">FTIR Spectrometer must be compact in size and portable to easily carried from one place to another without any special support requirement.It must have permanently aligned interferometer which insures no optical misalignment due to any vibrations, shock or during transportation.Instrument must be coated with ZnSe beamsplitter and windows, which will have no impact due to humidity.Ceramic source with optimized light flux must be incorporated in the instrument.Solid State Diode based laser must be incorporated in the instrument.High sensitive temperature controlled DLaTGS with 24 bit dynamic Analog to Digital convertor detector must be quoted.Instrument must have gold coated corner cube mirrors, to ensure long life of mirror, best light reflectivity and parallel light reflection to sample and detector.Instrument must be quoted with Diamond monolithic crystal ATR for direct analysis of powder, liquid, polymer and hard crystal samples. Diamond must be mounted on the ATR plate by soldering and not by glue.



- ✚ Instrument must perform automatic OQ and PQ and generate the report. It must be incorporated with Internal Validation Unit.
- ✚ Wavelength Range – 4000cm⁻¹ to 400cm⁻¹
- ✚ Wavelength Precision - < 0.0005cm⁻¹ or better
- ✚ Wavelength Accuracy - <0.05 cm⁻¹ or better.
- ✚ Spectral resolution better than 2cm⁻¹.
- ✚ Photometric Accuracy – Better than 0.1% T.
- ✚ Signal to Noise Ratio - 55,000:1 (1 min measurement time, spectral resolution 4 cm⁻¹) or better.
- ✚ Instrument must be quoted with following additional warranties on critical components and main instrument must have 12 months warranty:
 1. 10 years warranty on Interferometer
 2. 10 years on Laser
 3. 10 years on Diamond Crystal
 4. 5 years on Source.
- ✚ (Warranty with complete description what is covered and if preferable if quoted with part numbers)
- ✚ Software must have following features.
 - Atmospheric Vapour Compensation
 - Spectral Comparison
 - Multiple spectra Handling
 - Reporting - Customized templates
 - Quantification software
 - Automatic accessory detection and performance verification
 - Automated workflow creation
 - Multiple project window and multi monitor support
 - Live displays of data collection and spectral data preview
 - Full spectral processing and analysis tools (baseline correction, spectral math, peak area, peak height, etc)
 - Pre-defined reporting templates exportable to Microsoft Office Suite

All the Pre-Installation requirements like PC, Printer, UPS should be quoted.

- ✚ PC Specification
 - Branded, Desktop: i5 processor with latest generation, 8GB RAM, 512 SSD, Display 21.5 Inch, Operating System Windows 11 Home, MS-Office 2024, Integrated Graphics Card. Ports: Audio In-Out, USB, HDMI, LAN Port



	<p>10/100/1000 GbE, etc., Keyboard, Mouse, On site 3 years warranty.</p> <p>✚ Printer Specification</p> <ul style="list-style-type: none"> ▪ Tank Printer having PRINT/SCAN/COPY, DUPLEX PRINT, Speed 22PPM IS STD, DUTY CYCLE 25000PAGES ISO STD, USB Poart, Ethernet Port, On site 3 Years Warranty. <p>UPS : Online 1 KVA UPS High Frequency model 36 VDC with 3 nos. 42Ah Battery, SMF having 3 Years Warranty.</p>
<p>Changes in Technical specification after pri bid is highlighted in Bold and Underline</p>	
1	<ul style="list-style-type: none"> ✚ FTIR Spectrometer must be compact in size and portable to easily carried from one place to another without any special support requirement. ✚ It must have permanently / <u>Dynamic</u> aligned interferometer which insures no optical misalignment due to any vibrations, shock or during transportation. ✚ Instrument must be coated with ZnSe / <u>Ge-coated KBr</u> beamsplitter and windows, which will have no impact due to humidity. ✚ Ceramic source with optimized light flux must be incorporated in the instrument. ✚ Solid State Diode based laser must be incorporated in the instrument. ✚ High sensitive temperature controlled DLaTGS / <u>TDGS</u> with 24 bit dynamic Analog to Digital convertor detector must be quoted. ✚ Instrument must have gold coated corner cube mirrors / <u>equivalent</u>, to ensure long life of mirror, best light reflectivity and parallel light reflection to sample and detector. ✚ Instrument must be quoted with Diamond monolithic crystal ATR for direct analysis of powder, liquid, polymer and hard crystal samples. Diamond must be mounted on the ATR plate by soldering and not by glue. ✚ Instrument must perform automatic OQ and PQ and generate the report. It must be incorporated with Internal Validation Unit. ✚ Wavelength Range – 4000cm-1 to 400cm-1 ✚ Wavelength Precision - < 0.0005cm-1 or better < <u>0.0005-0.001 cm-1</u> ✚ Wavelength Accuracy - <0.05 cm-1 or better. ✚ Spectral resolution better than 2cm-1. <u>(0.75 – 2 cm-1)</u> ✚ Photometric Accuracy -- Better than 0.1% T. ✚ Signal to Noise Ratio - <u>55000:1 to 30000:1 (Peak to Peak)</u> (1 min measurement time, spectral resolution 4 cm-1) or better. ✚ Instrument must be quoted with following additional warranties on critical components and main instrument must have 12 months warranty: <ol style="list-style-type: none"> 1. 10 years warranty on Interferometer 2. 10 years on Laser 3. 10 years on Diamond Crystal <u>with transmission accessories with liquids and solids.</u> 4. 10 years on Source. 5. <u>Data base (25000 spectro and more)</u>



- ✦ **PHEUR for calibration and Internal polystyrene film with 5 years or more validity must be supplied for internal calibration.**

- ✦ (Warranty with complete description what is covered and if preferable if quoted with part numbers)

- ✦ Software must have following features.

- Atmospheric Vapour Compensation
- Spectral Comparison
- Multiple spectra Handling
- Reporting - Customized templates
- Quantification software
- Automatic accessory detection and performance verification
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- Branded, Desktop: i5 processor with latest generation, 8GB RAM, 512 SSD, Display 21.5 Inch, Operating System Windows 11 Home, MS-Office 2024, Integrated Graphics Card. Ports: Audio In-Out, USB, HDMI, LAN Port 10/100/1000 GbE, etc., Keyboard, Mouse, On site 3 years warranty.

- ✦ Printer Specification

- Tank Printer having PRINT/SCAN/COPY, DUPLEX PRINT, Speed 22PPM IS STD, DUTY CYCLE 25000PAGES ISO STD, USB Poart, Ethernet Port, On site 3 Years Warranty.

UPS : Online 1 KVA UPS High Frequency model 36 VDC with 3 nos. 42Ah having 3 Years Warranty.

Battery, SMF

Ref.: Estate/FTIR/PM-USHA/ET-08-2025/103

Date: 23/06/2025

Registrar

Swami Ramanand Teerth
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- 1) The System Expert, Computer Centre, This University – With a request to publish the said Corrigendum and Extension e-Tender Notice on our University web site.
- 2) Notice Board, Administrative Building, S.R.T.M.U.N.
- 3) Notice Board, Estate Department, S.R.T.M.U.N.

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