



भैषजकीय अभियांत्रिकी एवं
प्रौद्योगिकी विभाग

Department of Pharmaceutical
Engineering & Technology

No. IIT(BHU)/PH/2022-23/10

Dated: 09.06.2023

CORRIGENDUM-1

Tender Reference No.: IIT(BHU)/PH/FY/2023-24/QTN/M/10 Dated: 31.05.2023

Procurement of Fourier Transmission Infrared Spectrometer with monolithic Diamond ATR and
Transmission module: 1 complete Unit

Sl. No.	Tender Terms/ Specifications For	Modified Tender Terms/ Specifications Read
Section 8: Annexure 1 Page No 36, SCHEDULE OF REQUIREMENTS		
1.	At Page No.: 36, Se. No.: 1 For 'It must be capable to analyze both solid and liquid samples'	At Page No.: 36, Se. No.: 1 Read 'It must be capable to analyze both solid, liquid samples, paste and gel'
2.	At Page No.: 36, Se. No.: 4 For '2 cm ⁻¹ or better'	At Page No.: 36, Se. No.: 4 Read '1 cm ⁻¹ or better'
3.	At Page No.: 36, Se. No.: 6 For 'Beam Splitter should be of ZnSe.'	At Page No.: 36, Se. No.: 6 Read 'Beam Splitter should be of ZnSe / KBr'
4.	At Page No.: 36, Se. No.: 11 For 'Solid state laser'	At Page No.: 36, Se. No.: 11 Read 'Solid state laser / Diode laser'
5.	At Page No.: 36, Se. No.: 14 For 'Optics should be completely sealed and desiccated enclosure with life indicator'	At Page No.: 36, Se. No.: 14 Read 'Optics should be completely sealed and desiccated enclosure with minimum of 10 years warranty'
6.	At Page No.: 36, Se. No.: 16 For 'Instrument should have future upgradability for instruments like microscopy, imaging, and Gas chromatography etc'	At Page No.: 36, Se. No.: 16 Read 'Instrument should have future upgradability'
Section 8: Annexure II Page No 38, TECHNICAL COMPLIANCE STATEMENT		
7.	At Page No.: 38, Se. No.: 1 For 'It must be capable to analyze both solid and liquid samples'	At Page No.: 38, Se. No.: 1 Read 'It must be capable to analyze both solid, liquid samples, paste and gel'
8.	At Page No.: 38, Se. No.: 4 For '2 cm ⁻¹ or better'	At Page No.: 38, Se. No.: 4 Read '1 cm ⁻¹ or better'
9.	At Page No.: 38, Se. No.: 6 For 'Beam Splitter should be of ZnSe.'	At Page No.: 38, Se. No.: 6 Read 'Beam Splitter should be of ZnSe / KBr'
10.	At Page No.: 38, Se. No.: 11 For 'Solid state laser'	At Page No.: 38, Se. No.: 11 Read 'Solid state laser / Diode laser'
11.	At Page No.: 38, Se. No.: 14 For 'Optics should be completely sealed and desiccated enclosure with life indicator'	At Page No.: 38, Se. No.: 14 Read 'Optics should be completely sealed and desiccated enclosure with minimum of 10 years warranty'
12.	At Page No.: 38, Se. No.: 16 For 'Instrument should have future upgradability for instruments like microscopy, imaging, and Gas chromatography etc'	At Page No.: 38, Se. No.: 16 Read 'Instrument should have future upgradability'

All other contents of the aforementioned tender document shall remain unchanged.

S. Hemalatha 9/6/23
Head of the Department
विभागाध्यक्ष / Head



SECTION 8**ANNEXURE-1****REVISED SCHEDULE OF REQUIREMENTS****TECHNICAL SPECIFICATIONS: Fourier Transmission Infrared Spectrometer with monolithic Diamond ATR and Transmission module**

Sl. No.	Specification Name	Bid Requirement
1	Fourier Transmission Infrared Spectrometer with monolithic Diamond ATR and Transmission module	
2	It must be capable to analyze both solid, liquid samples, paste and gel	
3	Wavelength Range	5000 cm ⁻¹ to 600 cm ⁻¹ or better
4	Spectral resolution	1 cm ⁻¹ or better
5	Wave number accuracy	0.06 cm ⁻¹ or better
6	Beam Splitter	Beam Splitter should be of ZnSe / KBr
7	Detector	DTGS/ DLaTGS Detector
8	Source	Mid IR Source
9	Peak-to-Noise ratio	30,000:1 for 1-minute scan at 4 cm ⁻¹ or better
10	Interferometer	Michelson interferometer, High stability, self-compensating for dynamic alignment changes
11	Reference laser	Solid state laser / Diode laser
12	Validation	Software controlled validation
13	Operating Range	10 - 45° C
14	Optical system	Optics should be completely sealed and desiccated enclosure with minimum of 10 years warranty.
15	Software	Latest version of single software platform (Windows based) for all functions required for infrared analyses; instrument control, data manipulation and analysis, and flexible report utilities.
16	Instrument should have future upgradability	
17	Instrument should be supplied with following accessories:	
		a. Reflection analysis ATR with Diamond crystal for solid and liquid protein and nanomaterials.
		b. Sealing press, KBr powder, sample holder, mortar -pestle and other items required for pellet making.
		c. Genuine & OEM Spectral Libraries of minimum 10,000 compounds including common organic compounds, polymer, minerals, drugs etc.
		d. Should be supplied with Suitable branded computer (i7, 8 GB RAM, 1 TB HDD, 22 inch LED monitor), printer & online ups with 15 minutes back up, transmission analysis.
18	Warranty and other requirements	3 years complete warranty on entire system + 2 years free AMC 5-10 years: On Interferometer, Laser source and IR source
		2-3 days training to the users twice after installation
		Supplier must submit authentic documents to prove their claim in meeting or deviating tender specification. Website link should also be provided to support the claim.
		Financial bid of the technically qualified vendor will be opened only after successful demonstration if institute wish to do so.
		Minimum 10 performance certificate/installation report in IITs/NITs/ Central Govt. Institutions / Central Universities should be enclosed.

Note- Only those bidders who will quote rates of all the items will be consider for evaluation. Lowest bidder will be decided on overall L1 basis.

REVISED TECHNICAL COMPLIANCE STATEMENT

Tender for Fourier Transmission Infrared Spectrometer with monolithic Diamond ATR and Transmission module

Sl. No.	Specification Name	Bid Requirement	Whether the instrument complies with the required specification (Yes/No/Better)	If no or better specification, then provide your comment accordingly
1	Fourier Transmission Infrared Spectrometer with monolithic Diamond ATR and Transmission module			
2	It must be capable to analyze both solid, liquid samples, paste and gel			
3	Wavelength Range	5000 cm ⁻¹ to 600 cm ⁻¹ or better		
4	Spectral resolution	1 cm ⁻¹ or better		
5	Wave number accuracy	0.06 cm ⁻¹ or better		
6	Beam Splitter	Beam Splitter should be of ZnSe / KBr		
7	Detector	DTGS/ DLaTGS Detector		
8	Source	Mid IR Source		
9	Peak-to-Noise ratio	30,000:1 for 1-minute scan at 4 cm ⁻¹ or better		
10	Interferometer	Michelson interferometer, High stability, self-compensating for dynamic alignment changes		
11	Reference laser	Solid state laser / Diode laser		
12	Validation	Software controlled validation		
13	Operating Range	10 - 45° C		
14	Optical system	Optics should be completely sealed and desiccated enclosure with minimum of 10 years warranty.		
15	Software	Latest version of single software platform (Windows based) for all functions required for infrared analyses; instrument control, data manipulation and analysis, and flexible report utilities.		
16	Instrument should have future upgradability.			
17	Instrument should be supplied with following accessories:			
		a. Reflection analysis ATR with Diamond crystal for solid and liquid protein and nanomaterials.		
		b. Sealing press, KBr powder, sample holder, mortal -pestle and other items required for pellet making.		
		c. Genuine & OEM Spectral Libraries of minimum 10,000 compounds including common organic compounds, polymer, minerals, drugs etc.		
		d. Should be supplied with Suitable branded computer (i7, 8 GB RAM, 1 TB HDD, 22 inch LED monitor), printer & online ups with 15 minutes back up, transmission analysis.		
18	Warranty and other requirements	3 years complete warranty on entire system + 2 years free AMC 5-10 years: On Interferometer, Laser source and IR source		
		2-3 days training to the users twice after installation		
		Supplier must submit authentic documents to prove their claim in meeting or deviating tender specification. Website link should also be provided to support the claim.		
		Financial bid of the technically qualified vendor will be opened only after successful demonstration if institute wish to do so.		
		Minimum 10 performance certificate/installation report in IITs/NITs/ Central Govt. Institutions / Central Universities should be enclosed.		

The above compliance statement form is only indicative and can be modified according to requirements of the bidder.

Date :

Signature of the Authorized Official with Seal