

TENDER FOR PURCHASE OF FTIR TRANSFORM INFARERED SPECTROPHOTOMETER (FTIR) FOR PHARMACEUTICAL ANALYTICS FOR QUALITY CONTROL LAB AND NUTRITION DIVISION OF THIS INSTITUTE ON F.O.R NIH ISLAMABAD BASIS FOR THE YEAR 2025-2026 DUE ON 31.03.2026 AT 11.00 A.M.

S#	Name of Items with specification	Qty.	Bidding item, company name, Brand name	Unit Price	Total Amount
1.	<p>Fourier Transform Infrared Spectrometer (FTIR) for Pharmaceutical analytics Specifications, Warranty, and Supplier Terms</p> <p>The system must be a digital pharmaceutical-grade FTIR (Fourier Transform Infrared) Spectrometer, equivalent to latest IR series of Agilent / Shimadzu, or similar equivalent systems, along with all necessary and optional accessories. It must include 21 CFR Part 11 compliant software, calibration tools standards, and a complete qualification and validation package (IQ, OQ) as per ICH guidelines, specifically for 5 chemicals Glycerol, Phenol, Formaldehyde, Caprylic Acid, and Thiomersal with their standards. The equipment must meet FDA regulatory standards and comply with global compendia (USP).</p> <p>The supplier must be an authorized distributor of the manufacturer with a fully operational service center having engineers on panel available, providing post-sale maintenance services. The supplier should have a proven track record of installing at least 30 similar systems in pharmaceutical or research organizations in Pakistan, with verifiable references. 10-year warranty and 10-year post-sale maintenance agreement must be included to ensure long-term operational efficiency and compliance. Additionally, the manufacturer must provide training for two QC scientists and ensure support via local engineers and application specialists.</p> <p>Technical Specifications: The FTIR spectrometer must include the following key features to ensure high performance and reliability: Spectrometer Design and Core Features</p> <ul style="list-style-type: none"> • Interferometer: Michelson-type with high stability and precision, with 30° incidence angle. The interferometer must be aligned automatically equipped with advanced dynamic alignment capabilities for optimized and stable performance during measurements. It must be sealed, airtight, and moisture-resistant, with a minimum 10-year warranty. • Beam Splitter: Germanium-coated KBr for covering the mid-IR range, with automated alignment during replacement. • Detector: Lithium tantalate or equivalent high-sensitivity detector, with a 10-year warranty, suitable for routine FTIR applications. • Light Source: High-energy ceramic IR source with a 10-year warranty, designed to switch off automatically when not in use to extend its lifespan. • Spectral Range: Fully covers 7,800 to 350 cm⁻¹ or broader, with a resolution of 0.5 cm⁻¹ or better for reliable and reproducible results. • Signal-to-Noise Ratio: Must achieve 60,000:1 or higher at 4 cm⁻¹ resolution with 1-minute scan time. 	02 Nos.			

- Wavenumber Repeatability: $\pm 0.0005 \text{ cm}^{-1}$ (at $2,000 \text{ cm}^{-1}$) or better.
- Mirror Speed: 2.8 mm/sec or higher for faster data acquisition.

Sampling and Sample Compartment Features

- Optical System: Single Beam Optics design.
- Modular Sampling Capabilities: ATR modules with diamond, ZnSe, and Ge crystal plates, for enhanced sample analysis. accommodating various sample types (solids, powders, liquids, pastes, gels) along with sample preparations compartment or air/ gas generators if needed.
- ATR Module: Must include high-pressure clamps (up to 18 kg max pressure) with interchangeable tips and a crystal diameter of 1.8 mm, along with volatile liquid covers.
- Sample Compartment: Equipped with automatic accessory recognition to identify accessory type, set optimal scan parameters, and support large customized accessories.
- **Assembly:** All available optional sample assemblies for Liquid / solid /gas must be included.

Performance Enhancements

- Humidity-resistant interferometer window with a protective coating (up to 90% RH resistance).
- Temperature-Controlled Semiconductor Laser: Ensures stable data sampling, with a 10-year warranty.
- Includes volatile liquid covers and calibration standards.

Additional Accessories:

- PC/Laptop: Includes a compatible Core i7 system with 8 GB RAM and 1 TB storage.
- Printer: High-efficiency printer for spectra and data output.
- UPS: Minimum 3-hour backup time for uninterrupted operation.
- A humidity free closed cabinet to put the analyzer within during and after bench work. The cabinet must be GMP grade

Software Features and Needs

The FTIR system must come with CFR-compliant software that ensures secure electronic record management and advanced data analysis with the following capabilities:

Data Processing and Analysis

- Must support comprehensive data analysis functions, including addition, subtraction, baseline correction, ATR correction, Kubelka-Munk correction, Kramers-Kronig analysis, peak detection, peak area/height calculation, multi-point calibration curves, and purity testing.
- Library Search: Includes a spectral library of 1,500+ spectra tailored for pharmaceutical applications, enabling raw material identification, counterfeit detection, API quantification, and QC/QA processes.

<ul style="list-style-type: none"> Validation Program: Must include self-diagnostics, status monitoring, and validation that complies with ASTM, USP, EP, JP, and generates inspection reports aligned with GLP, GMP, ISO standards. <p>Automation and User Accessibility</p> <ul style="list-style-type: none"> Macro Programs: Must include 20+ default macros for contaminant analysis, identification, quantitation, and film thickness measurement, allowing easy setup for new users. Atmosphere Correction: Must allow manual or automatic atmosphere correction post-scanning. Status Monitor: Display the status of the light source, laser, humidity inside the interferometer, and accessory information in real time. <p>Reporting and Troubleshooting</p> <ul style="list-style-type: none"> Report Generation: Enables direct printing of spectra, pass/fail judgments, and detailed comparison of peak wavenumbers and intensity ratios between standards and samples. Troubleshooting Support: Software should suggest corrective measures and parameter adjustments for obtaining better-quality spectra. Usage Monitoring: Light source and laser usage times must be displayed with alerts for maintenance and inspection scheduling. <p>Optional Specifications and Compliance</p> <ul style="list-style-type: none"> Regulatory Compliance: Manufacturing standards must include ISO-9001, ISO-14001, and ISO-45001 certifications, and the system must have a Declaration of Conformity for EMC and low-voltage directives. Qualification Package: Include a full qualification and validation package (IQ, OQ) as per ICH guidelines. <p>Post-Sale Support: A 10-year maintenance agreement with a local service center capable of fast response and on-site support. (01 QCL & 01 Nut. Div.)</p>				
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No. of quoted items

Value of quoted items

Fix Earnest Money

Signature of authorized person: _____

Seal of Company/firm: _____

Date: _____

Phone No. _____

Mobile No. _____

Fax No. _____



NATIONAL INSTITUTE OF HEALTH ISLAMABAD

Sealed tenders are invited for the **purchase of FTIR Transform Infrared spectrophotometer (FTIR) for Pharmaceutical Analytics for Quality Control Lab and Nutrition Division of this Institute on F.O.R, NIH, Islamabad Basis on Single Stage Two Envelope Procedure Basis** as per attached Tender Enquiry, **due on 31.03.2026 at 11.00 a.m.** The tender will be opened on the same day at 11.30 a.m. in the Conference Room of this Institute. No tender will be considered after due date and time, unsealed tenders will not be accepted.

TERMS & CONDITIONS:

1. Tender documents on “F.O.R NIH, Islamabad basis” with complete specifications can be obtained from the Finance Division of this Institute after depositing of Rs.1000/- (Non-refundable) as tender fee. Original receipt of tender fee must be enclosed with the tender documents.
2. All the tenderers are required to enclose a Bank draft/Call deposit of fix as earnest money amounting to Rs.200,000/- (Rupees two hundred thousand only) (Refundable) in the name of Executive Director, NIH, Islamabad **(TO BE ATTACHED WITH TECHNICAL BID)**. No other negotiable document except Bank draft/ Call deposit will be accepted. Previous security will not be considered for this tender. The tender of any firm/bidder who does not enclose the fix earnest money/short earnest money in the shape of bank draft/call deposit along with the tender documents, will not be considered.
3. The successful bidder will have to deposit 5% of the total cost of the items for which supply is being issued as security money within a week after issuance of the letter of intent. If the bidder fails to deposit 5% security money within the stipulated period, then the fix earnest money already deposited will be forfeited to NIH account and the supply order will not be issued. The 5% security money will be forfeited if the tender is accepted and supply is not completed within the stipulated period given in the supply order. The supply order will be placed upon the successful bidder/contractor after completion of all the codal formalities.
4. The Chief Executive Officer, NIH is not bound to purchase all the items in full quantity of any item mentioned in the tender form. He may issue supply order either for less or more quantity as per requirement of the concerned department.
5. A fresh solvency certificate with regard to the financial soundness of the firm from its banker should be attached with the quotations to assess the financial capability of the firm.
6. The following documents should be provided along with the tender.
 - a. Photocopy of computerized NIC of the Chief Executive/Proprietor of the firm.
 - b. Assessment of the tax by ITO of the last year 2023-2024 or 2024-2025.
 - c. A certificate of deduction of tax from the supplier under Income tax ordinance 2001 of the year 2023-2024 or 2024-2025.
 - d. In case of appeal under section 62, income tax ordinance, copy of the assessment of 2023-2024 or 2024-2025 to be provided along with the NTN number.
7. The supplier/contractor shall have to obey all the instructions issued to him from time to time by the Chief Executive, NIH, Islamabad or his authorized officer in connection with supply of contract items.
8. The Chief Executive Officer, NIH is the final authority to decide any dispute and problem if any during contract period and thereafter, the decision of the Chief Executive Officer shall be final and binding on the supplier/contractor.

9. Quoted rates must be exclusive of GST. A copy of sales tax registration certificate must be enclosed. In case of any escalation in rates of the item(s) during the period of contract, NIH, Islamabad will not be liable on this account and the contractor is bound to complete the supply in any case.
10. Any other clarification, if required, can be obtained from Purchase & Procurement Department of this Institute. Conditional or incomplete tenders will not be accepted. Successful bidder will have to supply pre-shipment sample of items for evaluation if required.
11. All the bidders are directed to please provide the brochures/leaflet/technical information, brand name, catalogue number and company name of Equipment/ Items which is being quoted. Containing complete specifications. The rates should be quoted for the given specification. The alternate specification given by the supplier will not be considered. The tender of those bidders whose rates are found un-realistic will not be considered.
12. The rates quoted in the tender should be **properly typed or clearly legible written. Erasing, overwriting and using fluid will amount to disqualification.** The tender shall be valid up to **31-12-2026.**
13. All supply must be completed by the specific date given in the supply order. The bidder should clearly mention the time period for completion of the supply in their quotation, so that supply order could be issued accordingly.
14. Sufficient time will be given in the supply orders for importable items as per PPRA rules 2004 amended from time to time. The supplier is bound to complete the supply within stipulated period. After completion of time period in supply order 1st reminder with 15 days period will be issued to supplier/contractor to complete supply. After 15 days a 2nd reminder with 07 days period will be issued to supplier/contractor to complete supply. After completion of this time security money of supplier/contractor will be forfeited and firm will be **Black Listed** to take part in the tender competition for supply to NIH in future. This action will be publicized for general awareness of the Government and Semi-Government Departments.
15. Supply shall be accepted subject to the inspection and acceptance by the concerned department/inspection authority. Where consider necessary by the user department the store may be obtained on warranty/guarantee subject to inspection on receipt. Rejected store will be removed and replaced with the acceptable store by the supplier at his own expenses within a specified time. The rejected store shall be removed from ware house within 07 days by the supplier failing which the NIH management reserves the right to dispose off the same in addition to charge ware house rent on per day basis which will be fixed by CEO, NIH.
16. Last date of the receipt of tender is **31.03.2026 at 11.00 a.m.** No tender will be received after due date and time. **Single Stage Two Envelopes bidding procedure shall be applied.** The bid shall comprise single package containing two separate envelopes for the Financial Proposal and The Technical Proposal. Each envelope shall be marked as **“TECHNICAL PROPOSAL”** and **“FINANCIAL PROPSAL”** separately, in bold and legible letters to avoid confusion. The envelope marked “Financial Proposal” shall have separate sealed envelopes for each quoted item, with the name of the quoted item written on each envelope in bold and legible letters. Initially, only the envelope marked **“TECHNICAL PROPSAL”** shall be opened. The envelope marked as **“FINANCIAL PROPOSAL”** shall be retained in the custody of purchaser without being opened. Financial Bid of only the item(s) found to be technically acceptable; shall be opened. The amount of the earnest money in the shape of the Bank Draft/CDR is required to be supported with technical bid.
17. The bidder must note that from specification/material of chemicals, if any reference to a particular brand is being generated, it is intended to be descriptive only and not restrictive.

18. The sealed envelope should be marked and “Tender for purchase of **“TENDER FOR PURCHASE OF FTIR TRANSFORM INFARERED SPECTROPHOTOMETER (FTIR) FOR PHARMACEUTICAL ANALYTICS FOR QUALITY CONTROL LAB OF THIS INSTITUTE”** on the left corner of the envelope and put in the relevant tender box placed in the office of the Director (P&P), NIH, Islamabad.
19. The terms and conditions of the tender, duly accepted/signed by the bidder must also be attached with the quotation.
20. In case failure to complete the Supply/Work order will be cancelled with forfeiture of 5% security money and in case of non-depositing of 5% security money, the security letter will be cancelled with forfeiture of fix earnest money. The case will also be put to PPRA for **BLACK LISTING** to take part in the tender competition for supply of store to NIH in future. This action will be publicized for general awareness of other Government and Semi-Government Departments/PPRA website.
21. All the bidders are informed that in future no extension will be granted to bidders and also directed that the bidder must mention the required delivery period in his quotation.
22. The delivery time will be given to the bidders for four weeks for local delivery and twelve weeks for importable items which will only be given to those bidders, who will mention the required delivery period in their quotation at the time of submitting of quotation for tendering process, failing which bid will not be considered.
23. All the bidders are informed that according to Section-3 S.No. 22A (b) contained in Schedule-1 to Stamp Act-1899 regarding procurement of store and material, in case of agreement made or entered in to by a contractor agency or organization set up or controlled by the federal or the Provincial Govt. Stamp Duty @ Rupees twenty five paisa for every one hundred rupees or part thereof of the amount by the Finance Division of this Institute.
24. Contract will be made on Stamp Paper (no-judicial) for Rs.100/- only beyond the amount of Rs.10.00 Million or technicality involved.
25. If the bidder fails to supply/complete the work within stipulated time period, then 1% demurrage charges monthly will be deducted from their bill.
26. All the bidders are directed to provide the proof of (No. of impurities in COA) with QR-code authentication or complete import document traceability. Providers must be the authorized Distributor of the Product Company COA and MSDS must be provided as well as Repack material will not be accepted.
27. The Competent Authority, Islamabad reserves the right to accept or reject any tender/all tenders without assigning any reason thereof.

28. All firms are directed to quote their bids/rates on online portal EPADS as well as original bid/rates must be submitted in hard form in Purchase and Procurement department, otherwise bid will not be entertained. Contractor must be registered with PPRA EPADS portal.

Director
Purchase & Procurement

ACCEPTANCE CERTIFICATE BY THE BIDDER

We have read the contents of the terms and conditions (from S.No.1-28) carefully for participating in the tender of NIH Islamabad and accepted & agreed to abide by all terms and conditions prescribed above in case our tender is accepted.

Date: _____

Place: _____

Signature of Tenderer: _____

Address: _____

Seal of firm: _____

Phone No.: _____

Fax No.: _____

Mobile No.: _____