

Tender Document for the Supply of Scientific Instruments to
Department Of Biotechnology,
Bharathidasan University

TENDER DOCUMENT



**Bharathidasan University
Tiruchirappalli - 620 024
Tamil Nadu INDIA**



**BHARATHIDASAN UNIVERSITY
TIRUCHIRAPPALLI - 620 024.**

**TENDER NOTIFICATION
NO. 51144/P4/2021/Dt.10.02.2021**

Sealed tenders are invited for the supply of scientific instrument, **Tender Specification of FTIR Spectrometer with ATR and 30,000 spectra Library Detailed** tender documents with specifications, terms and conditions etc., can be had from web site (www.bdu.ac.in).

The last date for receipt of the tenders in this office is 26.02.2026 at 3.00 PM.

REGISTRAR

Tender Summary

Tender No	NO. 4090/P8/2023/dt:28.08.25
Amount of EMD (Rs)	1.0 % of quoted value
Cost of the Tender Document (Downloadable one) – For each instrument	Rs...5000.... /- (D.D. in favour of Bharathidasan University, Tiruchirappalli-24)
Bid Submission	26.02.2026 at 3.00 PM
Bid Outer Cover Opening	26.02.2026 at 4.00 P.M
Bid opening (Technical)	Will be decided on the day of opening
Bid opening (Commercial)	Will be decided on the day of opening

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1. INTRODUCTION

Bharathidasan University established in February 1982, and was named after the great revolutionary Tamil Poet, **Bharathidasan** (1891-1964). The motto of the University "We will create a brave new world" has been framed from Bharathidasan's poetic words "**யெறுமேதார் உலகம் செய்வோம்**". The University endeavors to be true to such a vision by creating in the region a brave new world of academic innovation for social change.

The University has totally 4 Faculties, 16 Schools, 37 Departments and 29 Specialized Research Centres. There are 263 faculty members catering to 2564 students and scholars in the University. The University Departments/Schools are offering 151 programmes including 40 PG programmes in M.A., M.Sc. and M.Tech. The above programmes are conducted under the Choice Based Credit System (CBCS) in Semesters: 31 M.Phil., 33 Ph.D., 19 P.G. Diploma, 11 Diploma and 10 Certificates. The University's supporting staff strength is 457. In addition to the regular teaching programmes in the Departments and Schools, the University under its Distance Education mode is conducting 15 UG and 26 PG programmes. All the UG and PG programmes are conducted under non-semester system and MCA and MBA programmes are conducted under semester system along with the regular programmes. The MCA and MBA programmes conducted under this mode are very popular.

2. INVITATION FOR BIDS

1. The tender documents are invited for the supply of the following items to **Bharathidasan University, Tiruchirappalli - 620 024.**

Instrument Name: Tender Specification of FTIR Spectrometer with ATR and 30,000 spectra Library

2. Tenderers are advised to study the tender document carefully. Submission of tender shall be deemed to have been carried out after careful study and examination of the tender document with full understanding of its implications.
3. Sealed offers prepared in accordance with the procedures enumerated in instruction to Tenderers
(3) Clause 1 should be submitted to the office of **The Registrar, Bharathidasan University, Tiruchirappalli, Tamil Nadu** not later than the time laid down, at the address given in the schedule for invitation to tender under Clause 6.
4. All bids must be accompanied by an Earnest Money Deposit of 1.0 % of quoted value of the instruments, and a D.D. of **Rs 5000/-** towards document cost in favour of **Bharathidasan University, Tiruchirappalli - 24, Tamil Nadu** (Separate DD for document cost and EMD & Separate Bid for the instrument). EMD should be submitted only in the form of D.D.
5. This tender document is not transferable.
6. Schedule for invitation to tender

Last date for submission of Bid documents : 26.02.2026 at 3.00 PM

Date till which the Bid is valid : 180 days from the date of submission.

Venue of Submission of Bid documents : Office of The Registrar, Bharathidasan University, Tiruchirappalli, 620 024, Tamil Nadu.

7. Tender through email / Fax will not be considered. **Tender form without the commercial bid will not be considered.**

Note: The University shall not be responsible for any postal delay about non receipt/non delivery of documents.

3. INSTRUCTION TO TENDERERS

A. INTRODUCTION

1. BID SUBMISSION PROCEDURE

Two cover System is to be followed for this tender

- a) Technical Bid in a separate cover
- b) Commercial Bid in a separate cover

1.1. Technical and Commercial Bid by the tenderers should be placed in two separate envelopes super- scribed with separate bid titles as follows;

- a) Technical Bid (2 copies)
- b) Commercial Bid (2 copies)

Tenders without the commercial bid will be rejected.

1.2. The tenderers have to qualify for the commercial bid.

1.3. Please note that the price should be mentioned only in the Commercial Bid.

1.4. Item wise pricing should be given in the commercial bid as per the format specified.

1.5. All the documents, viz., Technical Bid and Commercial bid prepared as above are to be kept in two sealed covers super-scribed with Tender number, Due date, Name of the instrument, and **“Do not open before 26.02.2026 at 3.00 PM should be specified.**

1.6. The cover thus prepared should also indicate **clearly the name and address of the tenderer.** P.S.: In case, fine tuning of technical specifications is required, the university reserves the right to ask for a commercial bid. In the absence of Commercial Bid, the original shall be held valid.

2. COST OF TENDER

2.1 The Tender shall bear all costs associated with the preparation and submission of Bid, including cost of presentation for the purposes of clarification of the bid.

2.2 If so desired by the University and University will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering Process.

2.3. The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document. Failure to furnish all information required in the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect will be at the Tenderer's risk and may result in the rejection of the bid.

2.4. Clarification of Tender Document a prospective tenderer requiring any clarification of the Tender Document may notify the University in writing at the University's mailing address. The University will respond in writing to any request for clarification of the Tender Document,

received. Email or written copies of the University response (including and explanation of the query but without identifying the source of inquiry) will be given to all prospective Tenderers who have received the Tender Documents.

3. AMENDMENT OF TENDER DOCUMENT.

- 3.1. At any time, the University may for any reason, whether at its own initiative or in response to a clarification requested by a prospective Tenderer, modify the Tender Document by an amendment.
- 3.2. The amendment will be notified in the University's website www.bdu.ac.in
- 3.3. In order to afford prospective Tenderers reasonable time in which to take the amendment into account in preparing their bids, the University may, at its discretion, extend the last date for the receipt of Bids.

B. PREPARATION OF BIDS

- 1. Language of Bids:** The Bids prepared by the Tenderer and all correspondence and documents relating to the bids exchanged by the Tenderer and the University, shall be written in English.
- 2. Documents Comprising the Bids:** The Bids prepared by the Tenderers shall comprise of following components: **a) Annexure A:**

S. No.	Eligibility Criteria	Requisite document
1.	The Tenderer must have reputed dealing in Scientific instruments for the last five years	Qualifying data duly filled in as per relevant Proforma provided in the bid proposal that the Tenderer is eligible to bid and is qualified to perform the contract, if its bid is accepted (Proforma).
2.	The Tenderer company must have a valid latest Income Tax Certificate	Copy of Latest Valid Income Tax Clearance Certificate/PAN Certificate.
3.	EMD of 1.0% of quoted value	DD in favour of The Registrar, Bharathidasan University, Trichirapalli-24, Tamil Nadu.
4.	Cost of the Tender document	Rs.5,000/- DD in favour of Bharathidasan University, Trichirapalli-24, Tamil Nadu.
5.	The Tenderer must submit proposal sheet as per terms of the Tender document certifying that they accept all terms and conditions of the Tender Document	Bid Proposal sheet duly filled in, signed and complete in all aspects (Proforma-I).

6. Is the Tenderer a Public / Private Limited Company having its Corporate/Head Office in Tamil Nadu and a local direct office in Tiruchirappalli? Address, Contact Person, Phone/Fax/Email of all Directors along with PAN / IEC / GST /TAN/TIN Service, Tax Details. Registration No., along with Date of Registration is to be provided.

7. Are they authorized for the equipment quoted by the manufacturer? Letter of authorization from the manufacturer.

(b) Technical Bid shall consist of following

1. Technical Details
2. Name & Designation of the person responding to the tender
3. Name, designation of person for contact

(c) Commercial Bid consisting of the following

1. Commercial Deviations
2. Commercial Bid

i) Bid prices duly filled, signed and complete as per the Price Schedule on the prescribed Quotation Proforma (Proforma-IV). The Tenderer shall indicate the firm prices, the Terms of Reference of which are given in the Technical Specifications. Two soft copies of deviations in the specified format given in Proforma-IV.

ii) Commercial Deviations from the terms and conditions and specifications as specified in the Bidding Documents (Proforma-V). Two soft copies of deviations in the specified format given in Proforma-V. The University reserves the right to carry out the capability assessment of the Tenderers and is not bound to place order on the lowest bidder. The University's decision shall be final in this regard.

4. TERMS AND CONDITIONS OF THE TENDER

4.1. Delay in the vendor's performance & penalty

4.1a. Delivery of the Goods and performance of Services shall be made by the Vendor in accordance with the time schedule specified by the purchaser in this schedule of requirement.

4.1b. An unexcused delay by the vendor in the performance of its delivery obligations shall render him liable to any or all of the following penalties: Imposition of liquidated damage and termination of this order for default.

4.2. Professional practice

The Tenderer shall adhere to professional scientific/engineering and consulting standards recognized by international professional bodies and shall observe sound management, technical and scientific/engineering practices. It shall employ appropriate advanced technology and safe and effective equipment, machinery, material and methods. The Tenderer shall always act in respect of any matter relating to this contract, as faithful advisors to the University and shall, at all times, support and safeguard the University's legitimate interests in any dealings with the third party.

4.3. Use of contract documents and information

4.3a. The Tenderer shall not, without the University's prior written consent, disclose the contract or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of University in connection there with to any person other than a person employed by the Tenderer in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

4.3b. The Tenderer shall not without the purchaser's prior written consent, make use of any document or information.

4.3c. Any document other than the contract itself shall remain the property of the University and shall be returned (in all copies) to the University on completion of the tenderer's performance under the contract if so, required by the University.

4.4. Earnest money & security deposit

Vendor shall deposit Earnest money along with tender document in the form of Demand Draft / Banker's Cheque in favor of **The Registrar, Bharathidasan University, Tiruchirappalli**. Tenders without earnest money will be rejected.

4.5. Schedule of payment

4.5a. Payment will be made only after the installation of the items and after issue of certificate by the Committee.

4.5b. GST / Sales Tax, Services Tax and Octroi shall be paid on actuals, as applicable.

4.5c. Tenderer should specify the TAN / PAN/TAN/TIN/GST.

4.6. Warranty period and maintenance services

The Vendor will be responsible for the comprehensive maintenance (free of charge) during the warranty period of scientific instruments mentioned in the technical specifications in detail after the installing at **BHARATHIDASAN UNIVERSITY**.

4.7. Prices

The prices quoted for the Items/Services shall be firm throughout the period of contract & this contract will be valid up to the date of final payment to the supplier and shall not be subject to any upward modification whatsoever. The rates should be quoted for sites. The commercial bids must be on the prescribed format as given in this document. The University is exempted from paying Customs Duty.

4.8. Taxes and duties

The Tenderer shall be entirely responsible for all taxes, duties, license fees, octroi, etc. incurred until delivery of the ordered Goods to the purchaser. However, GST / Sales Tax, Surcharge, Professional / Service Tax, octroi in response of the transaction between the purchaser and the Tenderer shall be payable extra by the purchaser if so, stipulated in the notification award.

4.9. Insurance

The Tenderer shall be responsible for all the Goods supplied under the contract and these shall be fully insured against loss or damage incidental to manufacture or acquisition transportation, storage, delivery, and installation, commissioning and running.

4.10. Tenderer's personnel

The Tenderer shall employ and provide such qualified and experienced personnel as are required to perform the services under the contract.

4.11. Confidentiality

The Tenderer and their personnel shall not, either during the term disclose any proprietary or confidential information relating to the services, contract or the university's business or operations without the prior written consent of the University.

4.12. Force majeure

Notwithstanding the provisions of the tender, the Tenderer shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that it's delays in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

4.12a. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Tenderer and not involving the Tenderer and not involving the Tenderer's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the University, either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

4.12b. If a Force Majeure situation arises, the Tenderer shall promptly notify the University in

writing of such conditions and the cause thereof. Unless otherwise directed by the University in writing, the Tenderer shall continue to perform its obligations under this order as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event, the University may terminate its order by giving a written notice of minimum 30 days to the Tenderer, if as a result of Force Majeure, the Tenderer being unable to perform a material portion of the services for a period of more than 60 days.

4.13. The University reserves the right to accept or reject any Tender in whole or in part without assigning any reason therefore.

4.14. The University is under no obligation to accept the lowest Tender.

4.15. Other conditions

4.15a. All disputes, differences, claims and demands arising under or pursuant to or touching the contract shall be referred to the sole arbitrator of **The Registrar, BHARATHIDASAN UNIVERSITY**. The award of the sole arbitrator shall be final and binding on both the parties under the provisions of the arbitration Act, 1940 or by statutory modification reenactment thereof for the time being in force. Such arbitration shall be held at Tiruchirappalli.

4.15b. In all matters and disputes arising there under, the appropriate Courts at Tiruchirappalli shall have jurisdiction to entertain and try them.

5. TECHNICAL SPECIFICATIONS

Sr. No.	Required Specification	
01	Application	<ul style="list-style-type: none"> • Computer-controlled, fully automatic FTIR spectrometer suitable for qualitative and quantitative analysis. • Capable of analyzing solids, liquids, thin films, and powders.
02	Optical System	<ul style="list-style-type: none"> • Spectral range: 8000–350 cm^{-1} or better. • Fully sealed and desiccated system; no purge gas required. • Minimum 5-year warranty on interferometer, laser, and infrared source. • User-replaceable desiccant, power supply, sample compartment windows, and IR source without opening the instrument cover.
03	Interferometer	<ul style="list-style-type: none"> • Permanently aligned or dynamically aligned interferometer. • Equipped with KBr/Ge beam splitter for mid-IR region
04	Spectral Performance	<ul style="list-style-type: none"> • Spectral resolution: 0.6 cm^{-1} or better. • Wavenumber precision: better than 0.001 cm^{-1}. • Wavenumber accuracy: better than 0.05 cm^{-1}. • Ordinate linearity: < 0.15 %T or better
05	Detector	<ul style="list-style-type: none"> • DTGS or DLaTGS detector.
06	Source	<ul style="list-style-type: none"> • Non-migrating hotspot, single-point IR source with minimum 5-year warranty
07	Laser	<ul style="list-style-type: none"> • Solid-state, temperature-controlled diode laser with long operational lifetime and 5-year warranty.
08	Atmospheric Interference Handling	<ul style="list-style-type: none"> • Software must include an automatic atmospheric suppression mechanism to eliminate moisture (H_2O) and CO_2 interferences from spectra without manual adjustment.
09	Advanced Data Processing Tools	<ul style="list-style-type: none"> • Must provide essential processing functions, including: , Baseline correction, Peak height and peak are a measurement , Spectral smoothing , Spectral subtraction ,Spectral comparison and overlay • Should support high-accuracy qualitative and quantitative spectral analysis
10	Quantitative Method Development	<ul style="list-style-type: none"> • Software must support development of quantitative models using: , Beer–Lambert Law ,

		<p>Classical Least Squares (CLS) o Partial Least Squares (PLS)</p> <ul style="list-style-type: none"> • Must allow calibration curve creation, validation, and statistical evaluation. Advanced Interpretation & Multi-Component Analysis • Additional software/module should be provided for:, Multi-component search and mixture analysis ,Automated IR interpretation tools for identifying functional groups and chemical classes.
11	Workflow Automation	<ul style="list-style-type: none"> • Software must be capable of automatically generating workflows based on the complete processing history of a spectrum. • Should allow saving, reusing, and applying workflows to multiple samples for consistent analysis.
12	Communication Interface	<ul style="list-style-type: none"> • Instrument must support USB and LAN (Ethernet) connectivity for data transfer, control, and networking.
13	Installation, Training & Support	<ul style="list-style-type: none"> • Free installation, system setup, and demonstration at the user site. • Hands-on operational and maintenance training for scientific personnel is mandatory. • Supplier must provide post-installation support and service as required.
14	Spectral Library	<ul style="list-style-type: none"> • FTIR system must include spectral libraries with a minimum of 30,000 spectra. • The following libraries must be supplied: FT-IR Standard Spectra Library, Georgia State Crime Lab Drug Library, Polymer Additives and Plasticizers Library, Hummel Polymer & Additives Library, Common Materials & White Powders Library o Polymer and Plasticizer by ATR Library. Inorganics Library,
15	Calibration / Performance Verification	<ul style="list-style-type: none"> • Supports internal or external performance verification. • System must be supplied with NIST-traceable 1.5 mil polystyrene film, with 5-year validity certificate.

6. Bid Proposal Proforma

Proforma - I

BID PROPOSAL SHEET

Tenderer's Proposal Reference No. & Date : Ref No. **4090/P8/2023/dt:28.08.25**

Tenderer's Name & Address : The Registrar
Bharathidasan University,
Tiruchirappalli 620 024.

Person to be contacted : Registrar

Designation : Registrar

Telephone No. 0431-2407072 **Email Id:** reg@bdu.ac.in **Fax No:** 0431-2407045

To

**The Registrar,
Bharathidasan University,
Tiruchirappalli-620 024.
Tamil Nadu.**

Dear Sir,

Subject: Proposal for supply of scientific instruments - Reg.

1. We, the undersigned Tenderers, having read and examined in detail the specifications and all bidding documents in respect of supply of systems do hereby purpose to provide Hardware & Technical Services as specified in the bidding document.

2. PRICE AND VALIDITY

2.1 All the prices mentioned in our proposal are in accordance with the terms as specified in bidding documents. All the prices and other terms and conditions of this proposal are valid for a period of 90 calendar days from the date of opening of the bids.

2.2 We do hereby confirm that our bid prices include all taxes including Income Tax & Professional Tax.

2.3 We have studied the Clauses relating to Indian Income Tax and hereby declare that if any Income Tax, Surcharge on Income Tax and any other Corporate Tax is altered under the law, we shall pay the same.

3. EARNEST MONEY & COST OF THE TENDER DOCUMENT

We have enclosed the earnest money (1.0 % of the quoted value) and cost of the tender document (Rs.5,000/-) in the form of Bank Draft/Banker's Cheque in favor of Bharathidasan University. It is liable to be forfeited in accordance with the provisions of tender document.

3.1 DEVIATIONS We declare that all the services shall be performed strictly in accordance with the Technical specifications and other tender document except the deviations as mentioned in the Technical deviation Proforma (Proforma -IV). Further, we agree that additional conditions, if any, found in the proposal documents, other than those stated in deviations Proforma, shall not be given effect to.

3.2 BID PRICING We further declare that the prices stated in our proposal are in accordance with your terms & conditions in the bidding document

3.3 QUALIFYING DATA We confirms having submitted in qualifying data as required by you in your tender document. In case you require any further information/documentary proof in this regard before evaluation of our bid, we agree to furnish the same in time to your satisfaction.

4. We hereby declare that our proposal is made in good faith, without collusion or fraud and the information contained in the proposal is true and correct to the best of our knowledge & belief.

Thanking you,

Yours faithfully,

(Signature)

Date:

Name:

Place:

Designation:

Business Address:

Seal

Proforma - II
PARTICULARS OF TENDERERS

TENDERER'S PARTICULARS FOR TENDER NO. _____

1. Name of the Tenderer : _____

2. Address of the Tenderer : _____

3. Year of Establishment : _____

4. Name of the affiliated firms (if any) : _____

5. Tenderer's proposal number & date : _____

6. Name & address of the officer
to whom all references shall be
made regarding this tender
: _____

7. Annual turnover of the firm for the
last year and name of the Dept. /
Institution where the supply of
Scientific instrument(s) has already been
Provided (Separate List of Institutions/
Universities may be furnished)
: _____

8. Contact Person/ Address/Telephone No
of the office who will be responsible for
executing this project : _____

9. Earnest Money Deposited & Cost of
the tender document DD NO/ Bank Details : _____

Telex :

Telephone:

Fax No. :

As of this date the information furnished in all parts of this form is accurate and true to the best of my knowledge.

Witness

Signature : _____

Signature : _____

Name : _____

Name : _____

Designation : _____

Designation : _____

Address : _____

Address : _____

Company : _____

Company : _____

Date : _____

Date : _____

Company Seal (With name & designation of the person signing the tender)

Proforma - III
TECHNICAL DEVIATIONS

Dear Sir,

Subject : Technical Deviations.

Following are the Technical deviations & variations from the expectations to the specifications. These deviations and variations are exhaustive. Except these deviations and variations, the entire equipment shall be provided as per your specifications and documents. A soft copy of the format should be submitted duly filled in, on the CD. In case of any variation between the soft and hard copy versions, the BHARATHIDASAN UNIVERSITY will consider the hard copy version.

S. No.	Clause. No	Page No	Statement of Deviations and Variations

Date :

Signature:

Name :

Place:

Seal :

Proforma - IV
PRICE SCHEDULE

Please fill in all the fields of the format.

S. No.	Item	QTY	Total Price in figures	Total price in words

Date :

Signature :

Name : _____

Place:

Seal : _____

Proforma - V

COMMERCIAL DEVIATIONS

Dear Sir,

Subject: Commercial Deviations

Following are the Commercial deviations & variations from the exceptions to the specifications of hardware. These deviations and variations are exhaustive. Except these deviations and variations shall be provided as per your specifications and documents.

Date :

Signature :

Name : _____

Place :

Seal :

Annexure A: Commercial Compliance Statement Fill up legibly

S. No.	Eligibility criteria	Yes/No	Documents attached
1.	Is the Tenderer having repute dealing in Scientific instruments for the last five years?		
2.	Does the Tenderer have valid latest income tax certificate?		
3.	EMD -1.0 % of quoted value (or As per Tamil Nadu Transparency in Tenders Rules)		
4.	Cost of tender document (Rs. 5000/-) for the instrument		
5.	Has the Tenderer submitted proposal sheet as per terms of the tender document certifying that they accept all terms and conditions of the tender document?		
6.	Are they authorized for the equipment quoted by the manufacturer?		
7.	Is the Tenderer a Public/Private Limited Company having its Corporate/Head Office in Tamil Nadu and a local direct office in Tiruchirappalli?		