

राष्ट्रीय प्रौद्योगिकी संस्थान पुदुच्चेरी  
थिरुवेत्ताकुडी, कारैक्काल – 609 609  
**NATIONAL INSTITUTE OF TECHNOLOGY PUDUCHERRY**  
**Thiruvettakudy, Karaikal – 609 609**  
**Union Territory of Puducherry**



**Tender Document**

**For**

**UV-Visible & FTIR Spectrophotometer for Chemistry Laboratory**

**Tender Enquiry No.: NITPY/CHEM/UV & FTIR SPM/2017/003,  
Dated: 07.07.2017**

**at**

**National Institute of Technology Puducherry  
Thiruvettakudy, Karaikal – 609 609  
Union Territory of Puducherry  
India.**

National Institute of Technology Puducherry an autonomous Institute established under Ministry of Human Resource Development, Government of India would like to procure the following items.

<b>Item Required</b>	:	<b>UV-Visible &amp; FTIR Spectrophotometer for Chemistry Lab (Specification attached)</b>
<b>Tender Enquiry No</b>	:	<b>NITPY/CHEM/UV &amp; FTIR SPM/2017/003, dated : 07.07.2017</b>
<b>Due Date (For submission of bids)</b>	:	<b>03.00 P.M. 07.08.2017</b>
<b>Technical Bid Opening time</b>	:	<b>04.00 P.M. 08.08.2017</b>
<b>EMD</b>		<p>The bidders shall furnish, as part of his bid, a Earnest money deposit (EMD)/ Bid security for an amount of Rs.20,000/- should be paid through online State Bank Collect mode under the payment category of Administrative Miscellaneous <a href="https://www.onlinesbi.com/prelogin/icollecthome.htm">https://www.onlinesbi.com/prelogin/icollecthome.htm</a>. The EMD or Performance security will bear no interest whatsoever. The copy of the payment receipt should be enclosed along with the Technical bid of tender document.</p> <p>EMD exemption is applicable to bidders registered with NSIC.</p>
<b>Eligibility Criteria</b>	:	<p>The Contractors / Tenderers should have experience in supply of similar item with <b>ONE</b> similar work of Rs.4,00,000/- or above (or) <b>TWO</b> similar works each of Rs.2,00,000/- (or) above executed during the <b>last 3 years</b> with reputed educational institutions, organizations, etc., along with the copy of orders.</p>
<b>Submission of Offer</b>	:	<p><b><u>Two Bid System:</u></b></p> <p>Two bid system will be followed for this tender. In this system the bidder must submit his offer in <b>two separate sealed envelopes</b>. Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately and clearly marked as <b>“Envelope No: 1 – Technical Bid”</b> and <b>“Envelope No: 2 – Commercial Bid”</b> respectively. EMD should be placed in the Envelope No: 1, Technical Bid.</p>
<b>Place of Submission</b>	:	<p>Please send the tenders in a sealed envelope superscribed as <b>“UV-Visible &amp; FTIR Spectrophotometer for Chemistry Laboratory, Tender Enquiry No: NIT-PY/CHEM LAB UV&amp; FTIR Spectrophotometer/2017-18/003, dated: 07.07.2017”</b> so as to reach.</p> <p>The Registrar (i/c) National Institute of Technology Puducherry Thiruvettakudy, Karaikal – 609 609 Union Territory of Puducherry India.</p>

## INSTRUCTIONS TO BIDDERS

- This document set contains the following:
  - Terms and conditions of the Tender
  - Details of the Firm offering this Quote
  - Technical Compliance Form
  - Quotation form (Price Bid)
  - Currency Form (quoted on behalf of the foreign suppliers)
  - NIT Puducherry's check list copy
- The bidder's copy is for your future records. **Please fill in and return only NIT Puducherry's copy.**
- The bidder should give details of their technical soundness and provide list of customers of previous supply of similar items to Universities, Institutes or Government Departments / Undertakings/public sectors with contact details. The details of the agency / profile should be furnished along with the copy of all related documents.
- Read through the terms and conditions given and affix your signature and seal if you find them acceptable. Any deviations may be recorded. Read carefully list of specifications that we have enclosed.
- Fill in the questionnaire regarding the Firm.
- The downloaded documents 'Technical Compliance Form' and 'Quotation Form (Price Bid)' should be TYPE WRITTEN USING CAPITAL LETTERS ONLY. At the time of filling the "Quotation Form (Price Bid)" make sure that you have not missed anything. Specify the model number & specification for each item. The form should be filled item-wise. Do not leave blank fields. If you are not quoting for a specific item, you should specify "NOT QUOTING".
- Do not use ambiguous terms like "yes", "complied" or "available". Specifically mention the matching specification of the product offered by you. Make sure that all the documents should be duly signed by you with date and seal.

<b>CHECKLIST TO BE FILLED IN BY BIDDER</b>	
List of documents to be enclosed	Completed & Signed
1. Terms and Conditions form	YES / NO
2. Details of the Firm offering this Quote	YES / NO
3. NIT Puducherry's Quotation form (Technical & Price Bid)	YES / NO
4. Currency Form (quoted on behalf of the foreign suppliers)	YES / NO
5. Other technical specifications & pamphlets	YES / NO

- Note:** 1. "Cover" should contain the following:
- Form of "**Acceptance of Terms and Conditions**".
  - Form of "**Firm details**"
  - Pamphlets, if any (in a separate sealed cover)

d. Quotation Form (Technical, Price Bid and Currency Form

**Please retain this page with you for your future reference**

**SECTION : 1 – TWO BID TENDER**

NIT Puducherry Copy

**Cover 1: EMD and Tender cost**

(Should be superscribed as 'EMD and tender cost cover' duly indicating the Tender reference No. and the due date of opening)

Earnest Money Deposit (EMD) and tender cost are to be submitted by way of Demand Draft drawn on any Nationalized bank in India in favor of "The Director, NIT Puducherry, Karaikal" payable at Karaikal. The bids submitted without EMD or tender cost will be treated as non-responsive and will be rejected. **EMD shall bear no interest.**

**Cover 2: Technical Bid**

(Should be superscribed as 'Technical Bid' duly indicating the Tender reference No. and the due date of opening)

Should contain:

- a. Technical pamphlets
- b. Detailed technical specification
- c. Copy of license certificate for manufacture/supply of the item\*
- d. Income Tax PAN number & TIN number.\*
- e. Last three years balance sheet approved by the CA and the IT clearance certificate.\*
- f. Warranty period offered for the tendered item to be specified. If the warranty period is not conforming to the schedule of requirements given in section 3 of the Tender document, the bid is liable to be treated as non-responsive and will be rejected.
- g. Duly filled up technical questionnaire, if any
- h. Duly filled up deviation schedules to technical specifications, if any
- i. Copy of supply orders completed during the last three years

\* Appropriately pertaining to the country of origin.

**Cover 3: Price Bid**

(Should be superscribed as 'Price Bid' duly indicating the Tender reference No. and the due date of opening)

Should contain:

- a. Price bid as per the format in Section-4 of the tender document
- b. Break-up price as per the format in Annexure-A

**Note:**

- a. If the prices are revealed in cover 1 or in cover 2, the offer will be summarily rejected.
- b. Each Cover shall be sent in a double sealed cover. The inner covers (Cover 1, Cover 2 and Cover 3) should be sealed individually with the Sellers's distinctive seal and superscribed with the tender reference No. and due date of opening. All inner covers shall be placed in a common outer cover which shall also be sealed with seller's distinctive seal and superscribed with the tender reference No. and due date of opening.

## SECTION : 2 – TERMS AND CONDITIONS FORM

1. The Bidders are requested to give detailed tender in their **own forms** in two bids.  
**Part-1** : **Technical Bid**  
**Part-2** : **Commercial Bid**
2. Tenders, which are submitted without following the two bid offer system will summarily be rejected.
3. The tender document can be downloaded from the National Institute of Technology Puducherry website [www.nitpy.ac.in](http://www.nitpy.ac.in)
4. **Envelope No-1 : Technical Bid**  
The technical offer **should not contain any price information**. The technical offer should comprise of the following:
  - i) Earnest Money Deposit (EMD).
  - ii) The technical bid should be comprehensive and shall indicate all specification of the all products and services. Each page of the bid and cutting / corrections shall be duly signed and stamped by the bidder. Failure to comply with this requirement may result in the bid being rejected.
  - iii) If the bid is for branded makes, an authorization letter from principals clearly indicating that the vendor is competent and authorized to sell and provide services towards the items shall be enclosed.
  - iv) List of deliverables / bill of materials and services.
  - v) Bids should have a validity of **90 days**.
5. **Envelope No-2 : Commercial Bid**  
This should contain only the price information along with commercial terms and conditions. The commercial bids of **only the shortlisted bidders** shall be considered for further processing.
6. **Technical Evaluation Committee**
  - i) A committee duly constituted by The Registrar (i/c), NIT Puducherry will go through the technical aspects of the tender and recommend short listed firms. The recommendation of the technical committee shall be final and binding on all the parties.
  - ii) The technical committee will examine all the technical aspects of the bids received. Further, the technical committee may seek additional information from the existing users at NIT Puducherry or from other Institutes and also call for technical presentations from the bidders if required.
  - iii) The bidders are required to submit the sample for evaluation before the stipulated time.
  - iv) No cost will be paid by NIT Puducherry for sample.
7. **Opening of Commercial Bids**

- i) NIT Puducherry will open commercial bids of only the shortlisted bidders in the presence of the bidders or their authorized representatives who choose to attend the commercial bid opening. The date and time of opening the commercial bid will be intimated only to pre-qualified and technically acceptable bidders for the item at a later date. The representatives of shortlisted firms only will be allowed for commercial bid opening.
- ii) No sub-contracting is allowed with regard to installation, commissioning, training, warranty, maintenance and after sales service. This is the sole responsibility of the principals / their authorized agents.
- iii) The NIT Puducherry reserves the right to accept the offer in full or in parts or reject summarily or partly.

#### **8. Delivery Period / Timelines**

The deliveries and installation must be completed within four weeks from the date of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet this expectation, as this is linked to student's admission and shifting the college to permanent campus.

#### **9. Locations for the supply / services**

The items covered by this document is required to be supplied and installed at

National Institute of Technology Puducherry  
Thiruvettakudy, Karaikal – 609 609  
Union Territory of Puducherry  
India

10. NIT Puducherry will not provide any accommodation / transportation for the engineers / representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the principal supplier / agent to make their own arrangements.

#### **11. Purchasers right to vary quantities at the time of award**

NIT Puducherry reserves the right at the time of award of contract to increase or decrease the quantity of items specified in the schedule of requirements without any change in price or other terms and conditions.

#### **12. Price**

The price quoted shall be considered firm and no price escalation will be permitted. The quote should be **FOR Destination** at National Institute of Technology Puducherry, Thiruvettakudy, Karaikal – 609 609, Union Territory of Puducherry.

- i) The packing, forwarding, freight, insurance and commissioning charges, if any extra may be quoted separately in commercial bid.
- ii) The actual sales tax percentage (without form "C") if any, should be specified.

#### **13. Performance Bank Guarantee**

The vendor will have to furnish performance bank guarantee for 10% of the total purchase order value, to be valid for one year plus two months from the date of installation and acceptance.

#### **14. Installation**

- i) Bidder shall be responsible for installation / demonstration as applicable and for after sales service during the warranty and thereafter.
- ii) Installation and demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site.

#### **15. Warranty / Support**

- i) The items supplied shall carry a minimum of **ONE year of comprehensive warranty** from the date of acceptance of the equipment.
- ii) The defects, if any, during the guarantee / warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, octroi, local taxes if any and should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.

#### **16. Indemnity**

The vendor shall indemnify, protect and save NIT Puducherry against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc., or such other statutory infringements in respect of all the items supplied by him.

#### **17. Freight and Insurance**

The items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at NIT Puducherry permanent campus.

#### **18. Payment**

90% payment shall be made at site against delivery, installation, commissioning and acceptance as per purchase order and balance 10% shall be made after receipt of performance bank guarantee. If no bank guarantee is given, the balance 10% will be paid after the warranty period plus two months.

#### **19. Penalty for delayed services / LD**

- i) As time is the essence of the contract, delivery period mentioned in the purchase order should be strictly adhered to. Otherwise the NIT Puducherry will forfeit EMD and also LD clause will be applied / enforced.
- ii) If the supplier fails to supply, and fix the item as per specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of order value for delay of every week or part here of subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.

iii) NIT Puducherry reserves the right to cancel the order in case the delay is more than 10 weeks. Penalty as at (ii) above will be deducted from the security deposit.

**20. Jurisdiction**

The disputes, legal matters, court matters, if any, shall be subject to Karaikal Court Jurisdiction only.

**21. Force Majeure**

NIT Puducherry may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the contract, is the result of a force majeure.

**22. Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc., shall be referred by either party (NIT Puducherry or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute and will be referred to the arbitrator to be nominated by The Registrar (i/c), NIT Puducherry, Karaikal. The Venue for arbitration shall be Karaikal, Union Territory of Puducherry, India.

**23. Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity / dispute in the interpretation of any of the clause in this tender document, interpretation of The Registrar (i/c), NIT Puducherry, Karaikal shall be final and binding on all parties.

24. Purchase Order may be issued to the supplier based on the lowest price of the each item.

-Sd-

**Registrar (i/c)  
NIT Puducherry**



**ITEMS REQUIRED (Specification sheet)**

**ITEM. 1: TECHNICAL SPECIFICATION FOR FOURIER TRANSFORM INFRA RED SPECTROPHOTOMETER**

<b>S.NO</b>	<b>Descriptions</b>	<b>Quantity Required</b>
<b>1.</b>	<ul style="list-style-type: none"><li>• Advanced PC based system FTIR system with built-in Lab solution IR File Edition Software for operation on 220V/50Hz.</li><li>• Full mid-IR range from 7,800cm<sup>-1</sup> to 350 cm<sup>-1</sup></li><li>• 300 incident angle Michelson's interferometer with completely sealed and desiccated optics</li><li>• Signal-to-Noise ratio of 30,000:1p-p or higher (4 cm<sup>-1</sup> resolution, 1 min accumulations)</li><li>• Patented Dynamic Alignment for stable performance and immune to tilt, shear and vibrations</li><li>• Patented frictionless Flexible Joint Support (FJS) moving mirror mechanism</li><li>• Spectral resolution of 0.5 cm<sup>-1</sup>, 1, 2, 4, 8 &amp; 16 cm<sup>-1</sup></li><li>• Ge coated KBr beam splitter with moisture resistant coatings on surfaces</li><li>• Built-in Auto dryer (dehumidifier) inside the interferometer for humidity protection</li><li>• High intensity long life Ceramic source</li><li>• High sensitivity temperature controlled DLATGS detector (DTGS doped with L-Alanine)</li><li>• Built-in validation software conforming to ASTM and European Pharmacopoeia</li></ul>	<b>1</b>
<b>2.</b>	KBr Die and Press complete set	<b>1</b>
<b>3.</b>	Compatible PC	<b>1</b>
<b>4.</b>	USB Cable for PC connectivity	<b>1</b>
<b>5.</b>	LaserJet Black and White Printer	<b>1</b>

**IMAGE FOR FOURIER TRANSFORM INFRA RED SPECTROPHOTOMETER**



**ITEM.2:**  
**SPECIFICATION FOR UV-VISIBLE SPECTROPHOTOMETER**

**TECHNICAL**

S.NO	Descriptions	Quantity Required
1.	<p>Microprocessor based UV-VIS Spectrophotometer with high resolution LCD display and dedicated soft keypad, for Operation on 220V / 50Hz.</p> <ul style="list-style-type: none"> <li>• Stand-alone operation or complete control through PC with UV-Probe PC software supplied as standard</li> <li>• True double beam optics with aberration corrected concave blazed holographic grating in Czerny - Turner mounting for high energy throughput and high quality monochromatic light</li> <li>• Wide wavelength range of 1,100 nm to 190 nm</li> <li>• High resolution 1 nm spectral bandwidth over entire wavelength range</li> <li>• Wavelength setting and display in steps of 0.1nm</li> <li>• Wavelength accuracy of <math>\pm 0.1\text{nm}</math> for <math>D_2</math> spectral line</li> <li>• Wavelength reproducibility of <math>\pm 0.1\text{nm}</math></li> <li>• Variable wavelength scanning speed of 3,000 nm/min to 2nm/min</li> <li>• Ultra low stray light of <math>&lt;0.02\%T</math> at 220nm with NaI filter</li> <li>• Wide Photometric range of -4 to +4 Abs and 0 to 400 %T</li> <li>• High Photometric Accuracy of <math>\pm 0.002</math> Abs at 0.5 Abs</li> <li>• High Photometric Repeatability of <math>&lt;\pm 0.001</math> Abs at 0.5 Abs</li> <li>• Very low baseline drift of 0.0003 Abs/hour</li> <li>• High baseline flatness of <math>\pm 0.0006</math> Abs over entire wavelength</li> <li>• Ultra low Photometric noise of <math>&lt;0.00005</math> Abs</li> <li>• Dual source – high intensity Tungsten-Halogen and Deuterium lamp with automatic changeover</li> <li>• High sensitivity matched pair Silicon Photodiode detector</li> <li>• 5 USB ports for high speed PC and printer connectivity, data storage and transfer through USB pen drive</li> <li>• Guaranteed compliance with all Pharmacopoeial requirements</li> <li>• Built in validation program, diagnostic and security functions</li> <li>• All operational modes as standard – Photometric; Spectrum; Quantitation; Kinetics, Time Scan, DNA and Protein Quantitation in standalone and PC mode. Additionally Multi-Component measurement available in stand-alone mode.</li> </ul>	1

	<ul style="list-style-type: none"><li>• Large sample compartment compatible with wide range of accessories</li><li>• Compact design with small footprint and only 15kgs in weight</li></ul>	
2.	UV 10mm Cell GS Kit	4
3.	Compatible PC	1
4.	USB Cable for PC connectivity	1

**IMAGE FOR UV-VISIBLE SPECTROPHOTOMETER**





Packing & Forwarding charges (extra, if any)

FOR Dispatching station value in Rs.

Freight & Transit insurance charges, extra, if any

Total all inclusive price delivered, installed and commissioned at NIT Puducherry

**Net cost to be paid by NIT Puducherry**

**Signature & Seal of Vendor**

**Note: The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "Not Applicable". If this format is not used or any column is left blank, then the bid will be rejected.**

**SECTION: 5 - CONTRACT FORM**

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**To be provided by the bidder in their business letter head**

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[Name of the Supplier's Firm] hereby abide to deliver the .....by the delivery schedule mentioned in the Section 2 of the Tender document for supply of the items if the purchase order is awarded.

The item will be supplied conforming to the specifications stated in the tender document without any defect and deviations.

Warranty will be given for the period mentioned in the tender document and service will be rendered to the satisfaction of NIT Puducherry during this period.

**Signature of the Bidder:** .....

**Name and Designation:** .....

**Business Address:** .....

**Place:**

**Date:**

**Seal of the Bidder's Firm**