



INDIAN INSTITUTE  
OF TECHNOLOGY  
PALAKKAD

**Indian Institute of Technology Palakkad**

भारतीयप्रौद्योगिकीसंस्थानपालक्काड

**STORES & PURCHASE SECTION**

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**Tender No. TENDER/2025-26/396**

**Date of Publication: 02-01-2026**

**Date/Time of Closing: 23-01-2026, 15:00 hours**

Indian Institute of Technology Palakkad Invites Tender under Two-bid system for the:

**SUPPLY, INSTALLATION, TESTING, AND COMMISSIONING OF  
LASER-BASED MID-INFRARED CHEMICAL IMAGING SYSTEM FOR MICROPLASTICS ANALYSIS**

Conforming to the specifications as in BoQ Technical.

Tender Documents may be downloaded from the e-Wizard Portal <https://mhrd.ewizard.in/>. Aspiring Bidders who have not enrolled / registered in e-Wizard should enroll / register before participating through the website <https://mhrd.ewizard.in/>. Bidders are advised to go through instructions provided at “**Procedure for Submission of E-tender**”. [Special Instructions to the Contractors/Bidders for the e-submission of the bids online through this e-Wizard Portal”].

Bidders can access tender documents on the website. For searching in the site, kindly go to Live Tenders option, Click “Advance Search” and select Department as ‘IIT Palakkad’. Thereafter, Click on “Search” button to view all IIT Palakkad tenders. Select the appropriate tender and fill them with all relevant information and submit the completed tender document online on the website <https://mhrd.ewizard.in/> as per the timeline below.

**No manual bids will be accepted. All tender documents including Techno-Commercial, Technical and Financial bids should be submitted in the e-Wizard portal.**

S. No.	Events	Date and Time
1.	<b>Publication of the Tender Document</b>	<b>02-01-2026</b>
2.	<b>Last Date/Time for submission of ONLINE Bids</b>	<b>23-01-2026, 15:00 hours</b>
3.	<b>Opening of Technical Bids</b>	<b>23-01-2026, 15:15 hours</b>

## TERMS AND CONDITIONS

1	<b>GENERAL</b>	<ul style="list-style-type: none"> <li>(a) The responsibility of submission of the bids on or before the last date shall rest with the tenderer. The institute will hold no responsibility for the non-receipt of the bids or the bids received after the date/time specified. Any bid received by IITPKD after the bid submission deadline prescribed by IITPKD, shall be rejected and returned unopened to the Bidder.</li> <li>(b) Canvassing or offer of an advantage or any other inducement by any person with a view to influencing acceptance of a bid is an offence under the Laws of India. Such action will result in the rejection of bid, in addition to other punitive measures.</li> <li>(c) Each bidder shall submit only one bid, either by himself or as a partner in a joint venture or as a member of the consortium. If a bidder or if any of the partners in a joint venture or any one of the members of the consortium participate in more than one bid, the bids (of both the individual and the partnership/consortium/joint venture) are liable to be rejected.</li> <li>(d) The bidder shall bear all costs associated with the preparation and submission of his bid and IITPKD shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tender process.</li> <li>(e) <b>IITPKD will respond to any request for clarification or modification of the Tender Document that are received up to TWO DAYS prior to the deadline for submission of bids prescribed by IITPKD. For this purpose, the prospective bidder(s) requiring clarification in the Tender Document shall notify IITPKD through the ONLINE Portal ONLY. Any such clarification, together with all the details on which the clarification had been sought, will be published in the ONLINE Portal ONLY. Deviations, if any, observed by the Institute in the submitted bids, from the Terms and Conditions of the Tender Document will not be accepted by the Institute.</b></li> <li>(f) Except for any such clarification by the Institute, which is expressly stated to be an addendum to the tender document issued by the Registrar, IIT Palakkad, no written or oral communication, presentation or explanation by any other employee of any of the Sections/Departments of the Institute, shall be taken to bind or fetter the Institute.</li> <li>(g) The bidder is expected to examine all instructions, forms, terms and conditions in the Tender Document. In the event of discovery of any missing pages, the bidder shall inform the same to the Section/Department concerned. Failure to furnish the information required by the Tender Document or submission of a tender not substantially responsive to the Tender Document in every respect will be at the bidder's risk and may result in rejection of the bid.</li> <li>(h) The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Tender Document.</li> <li>(i) The Supplier shall not, without the prior written consent of the IITPKD, assign to any third party, the Contract or any part thereof.</li> </ul>
2	<b>COMPOSITION OF THE TENDER DOCUMENT</b>	<ul style="list-style-type: none"> <li>(a) The Tender Document comprises of: <ul style="list-style-type: none"> <li>Instruction to the bidders including terms and conditions</li> <li>1. Technical Specifications (Annexure-I)</li> <li>2. Undertaking by the Bidder (Annexure-II)</li> <li>3. Fall Clause Notice Certificate (Annexure-III)</li> <li>4. Annexure regarding Blacklisting/Debarment (Annexure-IV)</li> </ul> </li> </ul>

3	<b>DOCUMENTS COMPRISING THE BID</b>	<p>(a) <b>The Technical, Techno-commercial (Cover One), and Commercial Bid (Cover Two) shall be submitted ONLINE through the e-Wizard Portal.</b></p> <p>(b) Bids submitted in any mode other than ONLINE will be rejected outright.</p> <p>(c) Documents establishing the conformity of the terms and conditions of the Tender Document shall be provided along with the bid. The offer/bids should be sent only for a system or that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.</p> <p>(d) Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid. No prices should ever be included in the Technical bid.</p> <p>(e) Compliance or Confirmation report with reference to the specifications and other terms and conditions should also be obtained from the principal.</p> <p>(f) Information related to the agency/bidder such as photocopies of the Registration/PAN/GST/TIN shall be furnished.</p> <p>(g) The technical bid should consist of all technical details along with commercial terms and conditions. <b>No prices should be included in the technical bid. Mentioning of Prices in the Technical Bid shall lead to <u>DISQUALIFICATION</u>.</b></p> <p>(h) Bidders who are bidding for this tender,</p> <ol style="list-style-type: none"> <li>1) Should have implemented at least <b>FIVE ORDERS for Laser-based Mid-Infrared Chemical Imaging System for Microplastics Analysis during previous three financial years (2022-23, 2023-24, and 2024-25)</b> from Centrally Funded Technical Institutes (IITs, NITs, IISc, IISER), DRDO, ISRO, CSIR labs or Government Firms in India. Copies of the most recent purchase orders and user certificates of successful implementation must be included. Copies of financial statements or evidence of turnover must be furnished.</li> <li>2) Should have an <b>Average Annual Turnover of Rs.4,30,00,000/- (RUPEES FOUR CRORE THIRTY LAKH ONLY) during the last THREE financial years (2022-23, 2023-24, 2024-25)</b>. The bidder shall enclose the audited statements of the indicated financial years, which should have been certified by a Chartered Accountant or a Competent Authority.</li> <li>3) Should submit Digitally signed Tender Document in Cover One.</li> </ol>
4	<b>EARNEST MONEY DEPOSIT (EMD)</b>	<p>(a) The bidder shall furnish EMD of <b>Rs.4,28,000/- (Rupees Four Lakh Twenty-Eight Thousand Only)</b> through online payment gateway in the E-Wizard.</p> <p>(b) <b>Bids not accompanied by EMD shall be DISQUALIFIED.</b></p> <p>(c) The firms who are registered with National Small Industries Corporation (NSIC) / or Small Scale Industrial (SSI)/ Micro &amp; Small Enterprises (MSEs) are exempted from submitting the EMD. NSIC / MSME registered bidders must submit a copy of a valid NSIC / MSME Registration Certificate for exemption of EMD. It will be applicable for those bidders who shall produce their own goods or provide their own services, and not applicable for trading purposes.</p>

5	PERFORMANCE SECURITY	<p>(a) The performance security shall be submitted within <b>FIFTEEN DAYS</b> of receipt of the material by the IITPKD. The successful bidder shall furnish the Performance Security equal to <b>5%</b> of the order / contract value (excluding the value of annual maintenance charges). The Performance Security shall be valid all along the warranty period and shall extend up to <b>SIXTY DAYS</b> after the date of completion of warranty period. It shall be ensured by the successful bidder that the validity of the Performance Security submitted is extended depending on the date of commencement of the Warranty.</p> <p>(b) The performance security shall be a bank guarantee/E-Bank Guarantee (in the format as provided) issued by the Indian Scheduled bank acceptable to the IITPKD or a Demand Draft favoring, <b>INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD</b> payable at <b>PALAKKAD</b>.</p> <p>(c) The performance security shall automatically become null and void once all the obligations of the Supplier under the Contract have been fulfilled, including, but not limited to, any obligations during the Warranty Period and any extensions to the period. The performance security shall be returned to the Supplier not later than fifteen (15) days after its expiration.</p> <p>(d) Failure of the successful Bidder to comply with the requirements shall constitute enough grounds for the annulment of the award and forfeiture of the EMD, in which event the IITPKD may make the award to the next lowest evaluated bid submitted by a qualified Bidder or call for new bids.</p>
6	BID PRICES AND CURRENCY	<p>(a) Prices must be quoted separately for each equipment/item identified.</p> <p>(b) <b>Price quoted for equipment/items shall include all the costs associated with packing, local transportation from the point of clearance to IITPKD, insurance, loading, unloading and associated delivery charges. The delivery shall be on DOOR DELIVERY basis to the institute including its installation, commissioning, integration and validation. It is the sole responsibility of the supplier to ensure that the equipment is delivered on DDP mode to IIT Palakkad. An undertaking to this effect as in Annexure-II.</b></p> <p>(c) Prices quoted by the bidder shall be fixed during the validity of the bid.</p> <p>(d) <b>Prices of the equipment/items shall be quoted in Indian Rupees (INR) / Foreign Currency.</b></p>
7	LETTER OF CREDIT	<p>(a) Upon the successful Bidder's furnishing of the copy of the Purchase Order duly signed on each page and the Performance Security, for the equipment ordered in foreign currency, IITPKD will open a letter of credit (LC) in a convenient Nationalized Bank in India. For opening of LC necessary information shall be provided by the supplier or its authorized agents.</p> <p>(b) In case the successful bidder is a foreign company and wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor shall submit a Bank Guarantee from a Nationalized Bank of India. The following documents shall be submitted in case of an Indian agent submitting the Performance Security on behalf of his principal:</p> <ul style="list-style-type: none"> <li>• Foreign principal's proforma invoice indicating the commission payable to the Indian agent and nature of after-sales service to be rendered by the Indian agent.</li> <li>• Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.</li> </ul>

		<p>(c) For imported equipment, a Letter of Credit (LC) shall be opened for 100% CIP price on receipt of the acknowledgment of the purchase order. However, 80% of the LC amount only shall be released on proof of the shipment of the consignment with necessary documents to be provided in detail at the time of placing of the purchase order. Balance 20% of the LC amount shall be released upon the receipt of a performance security of 5% of the total value of the purchase order and installation, commissioning, integration, validation and installation report/certification jointly given by the end user and the supplier.</p> <p><b>Any costs associated with the amendments made in the LC as per the request made by the Supplier s should be borne by the supplier.</b></p> <p><b>Any fluctuation in rates / rate conversions arising due to the amendment requests made by the supplier shall be on the supplier and not on the institute.</b></p>
8	<b>PERIOD OF VALIDITY OF BIDS</b>	<p>(d) Bids shall remain valid for a period of <b>180 DAYS</b> after the date of the deadline for submission of bids prescribed by IITPKD.</p> <p>(e) If the deadline is extended due to unforeseen circumstances, the bid validity shall be deemed to have extended accordingly.</p>
9	<b>TIME FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF THE EQUIPMENTS/ITEMS</b>	<p>(a) The Supplier shall supply the equipment/items within the period specified in the tender document i.e. within <b>8 WEEKS</b> of signing the purchase order or within the period mutually agreed between IITPKD and supplier. All the equipment and accessories should be delivered at <b>IIT Palakkad, C6, ESSENCE Lab, Sahyadri campus, Kanjikode West, Palakkad - 678623, Kerala.</b></p> <p>(b) The Supplier shall thereafter proceed with the installation, commissioning, integration and validation and demonstrate operational acceptance of the equipment/items within the period specified. The equipment/items shall be installed and commissioned by the successful bidder within 20 to 25 days from the date of its receipt.</p> <p>(c) The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.</p> <p>(d) In the event of failure of supply of the item/equipment/items within the stipulated delivery schedule, IITPKD has all the right to purchase the item/equipment/items from other sources on the total risk of the Supplier under the risk purchase clause.</p>
10	<b>PRODUCT UPGRADES</b>	The Supplier shall continue to support and maintain the version/model of the Equipment supplied by upgrading the software and the hardware as and when amendments are carried out in the existing version or the product is upgraded. Whereas upgrades to the software shall be supplied free of cost, the Supplier may charge for upgrade in hardware provided it is of major nature. An upgraded higher version of the instrument and software related with the instrument shall be supplied.
11	<b>PENALTIES</b>	If the Supplier fails to complete any of the activities in accordance with the time specified for it, or any extension of time granted by IITPKD, Liquidated Damages Clause shall be invoked.
12	<b>UP-TIME GUARANTEE/ DOWNTIME PENALTY CLAUSE</b>	<p>(a) The Supplier should provide up-time guarantee of 95% [24 (hours) X 7 (days) X 365 (days)] basis during the warranty period.</p> <p>(b) The Supplier should provide up-time guarantee of 95% (24 hours/day basis) both during warranty. If downtime exceeds the 5% limit, extension of the warranty period will be twice the excess down time period.</p>
13	<b>LIQUIDATED DAMAGES</b>	If a firm accepts an order and fails to execute the order, in full or part, as per the terms and conditions stipulated therein, it will be open to the Institute to recover liquidated damages from the firm at the rate of 1% of the value of the undelivered goods per month or part thereof, subject to a maximum of 5% of the value of the undelivered goods. It will also be open to the Institute alternatively,

		to arrange procurement of the required stores from any source, at the risk and expense of the firm, accepted and failed to execute the order according to stipulations agreed upon. This will also entail the removal of the defaulters' name from the approved/registered list of Suppliers.
14	<b>EFFECT OF FORCE MAJEURE</b>	<p>(a) If the Supplier is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the IITPKD in writing of the occurrence of such event and the circumstances of the event of Force Majeure within <b>FIFTEEN DAYS</b> after the occurrence of such event.</p> <p>(b) The Supplier, when affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upon its performance of the Contract and to fulfill its obligations under the Contract, but without prejudice to IITPKD's right to terminate the Contract.</p> <p>(c) No delay or non-performance by the Supplier caused by the occurrence of any event of Force Majeure shall:</p> <ul style="list-style-type: none"> <li>i. Constitute a default or breach of the Contract;</li> <li>ii. Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance.</li> </ul> <p>(d) If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than <b>THIRTY DAYS</b> or an aggregate period of more than <b>SIXTY DAYS</b> on account of one or more events of Force Majeure, the IITPKD shall have the right to terminate the Contract by giving a notice to the Supplier.</p>
15	<b>EXTENSION OF TIME LIMITS FOR SUPPLY AND MAKING OPERATIONAL, THE EQUIPMENT</b>	<p>(a) The time limit for supply, installation &amp; commissioning, integration &amp; validation shall be extended if the supply is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:</p> <ul style="list-style-type: none"> <li>i. Any occurrence of Force Majeure;</li> <li>ii. Any other matter specifically mentioned in the Contract;</li> </ul> <p>(b) By such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Supplier.</p>
16	<b>GOVERNING LAW AND SETTLEMENT OF DISPUTES</b>  <b>IEMs DETAILS:</b>	<p>(a) The Contract shall be governed by and interpreted in accordance with the laws of India.</p> <p>(b) Any complaints related to this tender should be reported to the Independent External Monitors (IEMs) through email. Details of the IEMs are as follows:</p> <ol style="list-style-type: none"> <li>1. <b>Shri. Ashok Kumar Poddar</b> Noida-201301(U.P), Email:- <a href="mailto:ashokpoddar62@gmail.com">ashokpoddar62@gmail.com</a></li> <li>2. <b>Shri G Venugopal Reddy</b> Hyderabad-500084, Email:- <a href="mailto:venu1960@gmail.com">venu1960@gmail.com</a></li> </ol> <p>(c) the Integrity Pact is deemed as part of the contract in order to ensure that the parties are bound by the recommendation of the IEMs, in case any complaint relating to the contract, is found substantiated.</p> <p>(d) Any dispute or claim arising out of/relating to this Contract or the breach, termination or the invalidity thereof, shall be settled by IEMs/ the Hon'ble Courts of Justice at Palakkad.</p> <p>(e) The page number should be marked in all pages serially (including all supporting documents enclosed with the tender document) and the declaration for the same shall be submitted by the bidder as in <b>Annexure-II</b>.</p> <p>(f) IITPKD reserves the right to accept or reject any or all the tenders in part or whole or may cancel the tender at its sole discretion without assigning any reason whatsoever. No further correspondence in this regard will be entertained.</p>

**AWARD OF CONTRACT**

<b>1</b>	<b>AWARD CRITERIA</b>	<ol style="list-style-type: none"> <li>1. The Contract will be awarded to the bidder whose offer is technically compliant in all respects and whose financial bid is the lowest among all technically qualified bidders.</li> <li>2. The Institute reserves the right to buy different items/quantities from different bidders considering price of individual/group of equipment/items or any other factors as decided by the Committee.</li> </ol>
<b>2</b>	<b>AWARD OF PURCHASE ORDER</b>	<ol style="list-style-type: none"> <li>1. Prior to the expiration of the period of bid validity, IITPKD will issue the Letter of Intent / Purchase Order to the successful Bidder in writing.</li> <li>2. Any amendment(s) in the Purchase Order will be permitted within <b>SEVEN DAYS</b> of its issuance. No amendments will be permitted beyond this period.</li> <li>3. The Purchase Order will constitute the foundation of the Contract.</li> </ol>
<b>3</b>	<b>CONTRACT AGREEMENT</b>	<ol style="list-style-type: none"> <li>1. Within <b>SEVEN DAYS</b> of receipt of the Purchase Order, the successful Bidder shall sign and date its copy on each page and return it to the Purchaser.</li> <li>2. Copy of Purchase Order duly signed and dated by the successful Bidder on each page shall constitute the Contract Agreement.</li> </ol>
<b>4</b>	<b>CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT</b>	<ol style="list-style-type: none"> <li>1. All documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.</li> <li>2. The order of precedence of the Contract documents shall be as follows: <ol style="list-style-type: none"> <li>(i) Contract Agreement/Purchase Order</li> <li>(ii) All Forms/Annexures</li> <li>(iii) equipment/items and their requirement</li> <li>(iv) Supplier's Bid</li> <li>(v) Tender Document</li> </ol> </li> <li>3. No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to the Contract and is signed by a duly authorized representative of each party to the Contract.</li> </ol>

**REGISTRAR**

Name of the Item :	Laser-based Mid-Infrared Chemical Imaging System for Microplastics Analysis
Quantity:	1
Warranty Period:	3 (additional two years AMC support)

### TECHNICAL SPECIFICATIONS

S. No.	Items	IIT PKD required Specification
1	Laser-based Mid-Infrared Chemical Imaging System for Microplastics Analysis	The equipment should support automated chemical imaging with minimal operator intervention and enable high-throughput analyses
		The equipment should include integrated software capable of image acquisition, spectral processing, spectral library-based identification, and automated report generation.
		The software integrated with the equipment should provide streamlined workflows for particle detection, sizing, and polymer classification.
		The software integrated with the equipment should be image-centric and intuitive, enabling efficient operation for routine analyses while also offering advanced functionalities for complex research applications.
		The instrument must be able to scan large sample areas ( $\geq 3 \text{ cm}^2$ ) and subsequently focus on micro-scale regions without requiring manual adjustment of optical components
		The imaging platform of the equipment should support variable pixel sizes in the micrometre range (approximately 1–40 $\mu\text{m}$ ) in reflectance to accommodate diverse analytical requirements
		The equipment should employ a Quantum Cascade Laser (QCL) light source ( $975\text{--}1800 \text{ cm}^{-1}$ ) and operate across a broad mid-infrared spectral range suitable for accurately identifying commonly occurring microplastic pollutants including (but not limited to) PE (both LDPE and HDPE), PP, PET, PS, PVC, PA, thereby ensuring high-quality and reliable spectroscopic measurements.
		The laser source integrated within the equipment must comply with Class 1 eye-safe standards (IEC/EN 60825-1), ensuring safe operation in enclosed or properly engineered systems typically found under normal laboratory conditions
		The equipment must support fast-scanning optics, enabling the acquisition of complete spectra within a few seconds ( $\leq 2 \text{ seconds}$ ) per measurement point.
		The equipment should include at least two integrated cameras—one for wide-field imaging and one for high-magnification imaging

		Pixel Size adjustments - Option to vary pixel size from $\geq 40$ microns to $\leq 1$ micron in reflectance and down to at least 0.3 to $\geq 2$ micron in attenuated total reflectance (ATR)
		smallest particle size identification (ability to reliably obtain a useful spectrum that can be compared to a library to determine the polymer type): $\leq 5.5$ by semi-automated workflow.
		Library license requirement - Dedicated microplastic ATR licenses library with at least 25 different polymer groups and 300 or better spectra in the library. List of basic polymers includes: Polyethylene, Polypropylene, Polyethylene terephthalate, Polystyrene, Polyvinyl chloride, Polyamide (Nylon), Polyester (general class), Polyacrylonitrile, Polyurethane, Cellulose acetate, Polycarbonate, Polymethyl methacrylate, Polybutylene terephthalate, Polyethylene naphthalate, Ethylene-vinyl acetate, Acrylonitrile butadiene styrene, Styrene-acrylonitrile, Styrene-butadiene rubber, Polytetrafluoroethylene, Polyvinylidene chloride, Epoxy resins, Phenolic resins, Polyvinyl alcohol, Polyvinyl acetate.
		Report generation compatibility - Aspect ratio, Area, Diameter, Characterizing the shape (circle, ellipses etc.), Particle size characterization (2D or better), Particle size, Distribution, roundness etc
		The equipment should be able to accommodate samples up to 25 mm in width, depth, and height
		The equipment should enable particle detection without the use of liquid nitrogen
		The system should be compact for standard laboratory benches with total weight below 50 kg.
		The equipment should operate reliably within a temperature range of 20–30 °C and at 50–80% relative humidity
		Spatial resolution of at least 6 micron to $\geq 10$ micron in reflection/trans-reflection mode imaging and $\leq 1.5$ to $\geq 5$ micron in ATR (Attenuated Total Reflectance) mode imaging
		Speed of analysis not more than 8 seconds per particle (for $\leq 50$ to $\geq 60$ $\mu\text{m}$ particles)
		Detector & Laser - Thermoelectrically cooled specialized Mercury Cadmium Telluride (MCT) detectors along with quantum cascade laser (Class 1). Minimum size that is detectable (using visible & IR light images): At least 1 $\mu\text{m}$ to $\geq 5$ $\mu\text{m}$
		Metal coated filter: Aluminium (75 qty) and gold (25 qty) coated filters for microplastics sample analysis.
		IR-reflective glass slides for direct microplastic observation and comparison with standards Qty-100
2	<b>UPS (accessory)</b>	5 KVA Online UPS with 1 Hr back up.
3	<b>Workstation (accessory)</b>	The system shall be based on a 64-bit operating system and equipped with a multi-core processor, sufficient system memory, high-speed solid-state storage for active datasets, and additional storage capacity for data archiving. The workstation shall support high-resolution display, reliable connectivity for instrument communication, and appropriate data backup provisions to ensure smooth operation and secure handling of analytical data. (RAM: 32GB; Processor: Intel(R) Core i7 Gen, 20 cores, 28 thread, 2.1 GHz; GPU NVIDIA 4GBGDDR6; HDD: 2 TB 7200 RPM; Display 24 inches; Wired Keyboard & Mouse)
4	<b>Vacuum filtration assembly (accessory)</b>	(Vacuum Pump 15L/min Flow, Vacuums 22" Hg, Maximum Pressure 25psig, Glass club with 1L glass flask, Qty-1)

5	<b>Vibration free Table (accessory)</b>	A vibration-free optical table or workstation shall be provided to support stable operation of the mid-infrared chemical imaging system. The table shall be designed to minimize transmission of environmental vibrations and provide a rigid, level, and thermally stable platform suitable for precision optical and spectroscopic measurements. The load capacity shall be adequate to safely support the instrument and associated accessories, and the table shall be compatible with routine laboratory use.
6	<b>Zero Dry Air Generator with Compressor (accessory)</b>	Flow of at least 10 L/min (20 cubic ft./hr) clean dry air, Max Outlet Pressure 6.9 bar / 100 psi; Outlet CO <sub>2</sub> Concentration <1ppm, Particles: 0.01 μm; high performance filters ensure maximum reduction of moisture; Precision Air Compresso
7	<b>Chemicals &amp; reagents for demo purpose (accessory)</b>	Chemicals and reagents (min 1 lit or 250gm) like Supra pure H <sub>2</sub> O <sub>2</sub> , FeSO <sub>4</sub> , H <sub>2</sub> SO <sub>4</sub> , KOH, NaCl, ZnCl, CaCl <sub>2</sub> , Ethanol, HNO <sub>3</sub> , Sodium iodide should be supplied
8	<b>Mobile Air purifier (accessory)</b>	Mobile air purifier suitable for indoor use, equipped with high-efficiency particulate filtration, low-noise operation, and caster wheels for easy mobility.

## **ANNEXURE-II**

### **UNDERTAKING BY THE BIDDER** **(TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)**

We here by accept all the Terms and Conditions of the Tender Document and strictly adhere to the same in the event of getting Purchase order. We also declare that the Technical and Financial Bids submitted by us has NO DEIVATION from the Tender Terms and Conditions.

**We hereby accept that the PRICES OF THE EQUIPMENTS/ITEMS QUOTED ARE AS PER THE INCOTERMS 2022 - DDP MODE, IIT PALAKKAD AND CLAUSE NO.6 OF THE TENDER DOCUMENT.**

We hereby undertake that there are \_\_\_\_\_ pages, serially numbered, in the submitted tender including the supporting documents. (Please serially number all the pages including blank page, if any).

We have submitted our principal's exclusive authorization letter which is specific for this tender No.\_\_\_\_\_ dated \_\_\_\_\_.

**Note: This letter should be on the letterhead of the quoting firm and should be signed by a Competent Authority.**

## **ANNEXURE-III**

### **FALL CLAUSE NOTICE CERTIFICATE** **(TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)**

This is to certify that we have offered the maximum possible discount to you in our Quotation No. \_\_\_\_\_ dated \_\_\_\_\_ **(Please do not reveal the prices here, which will lead to outright rejection of your bid).**

The prices charged for the Stores supplied under tender should under no event be higher than the lowest prices at which the party sells the items of identical description to any other Govt. organization/PSU's/Central Govt., /State Govt. Autonomous bodies/Central/state Universities/Central/State Educational Institutions, failing which the "FALL CLAUSE" will be applicable. The institute will look into a reasonable past period to ensure this.

In case, if the price charged by our firm is found to be more, **IIT Palakkad** will have the right to recover the excess charged amount from the subsequent/unpaid bill of the supplier.

**Note: This letter of authority should be on the letterhead of the quoting firm and should be signed by a Competent Authority and having the power of attorney.**

## **ANNEXURE-IV**

### **UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT**

Tender No. \_\_\_\_\_

To,  
M/s. Indian Institute of Technology Palakkad  
Kanjikode, Palakkad, Kerala 678623.

We hereby confirm and declare that we, M/s \_\_\_\_\_ are not blacklisted/ De-registered / debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/ Services.

For  
Company Name and Seal  
Authorised Signatory

**Note:This letter should be on the letterhead of the quoting firm and should be signed by a Competent Authority.**

## INTEGRITY PACT

**(to be submitted by the bidder on Rs. 100/- non-judicial paper)**

This INTEGRITY PACT is made and executed at \_\_\_\_\_ on this day of  
\_\_\_\_\_202\_\_\_\_\_

## BY AND BETWEEN

Indian Institute of Technology Palakkad (IIT Palakkad), an autonomous organization under Ministry of Education, Govt of India and incorporated under the Indian Institute of Technology Act 1961 having its campus at Nila Campus, Kanjikode West, Palakkad – 678623, Kerala (hereinafter referred to as “The Principal” which term or expression shall, unless excluded by or repugnant to the subject or context, mean and include its successor-in-office, administrators or permitted assignees) of the First Part;

AND

## PREAMBLE

The Principal intends to award, under laid down organizational procedures, contract/s for \_\_\_\_\_ . The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of and of fairness/transparency in its relations with its Bidder(s) and/or Contractor(s).

In order to achieve these goals, the Principal will appoint an Independent External Monitor (IEM), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

## Section 1 – Commitments of the Principal.

1. The principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
  - a) No employee of the principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the personal is not legally entitled.
  - b) The principal will during the tender process treat all Bidder(s) with equity and reason. The principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the process or the contract execution.
  - c) The principal will exclude from the process all known prejudiced persons.
2. If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

Section 2 – Commitments of the Bidder(s)/Contractor(s)

1. The Bidder(s)/Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
  - a. The Bidder(s)/contractor(s) will not, directly or through any other persons or firm, offer promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage or during the execution of the contract.
  - b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
  - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/Contractors will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or documents provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- d. The Bidder(s)/Contractor(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the bidder(s)/contractor(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. All the payments made to the India agent/representative have to be in Indian Rupees only.
- e. The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- f. The Bidder(s)/Contractor (s) who have signed the Integrity Pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision on the matter.

2. The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

### Section 3: Disqualification from tender process and exclusion from future contract

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above or in any other form such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or to terminate the contract, if already signed, for such reasons.

### Section 4 : Compensation for Damages

1. If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.
2. If the Principal has terminated the contract according to Section3, or if the Principal is entitled to terminate the contract according to Section3, The Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

### Section 5 : Previous Transgression

1. The Bidder declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the TII's anti-corruption approach or with any other public sector enterprise in India that could justify his exclusion from the tender process.
2. If the bidder makes incorrect statement on this subject, he can be disqualified from the tender process and appropriate action can be taken including termination of the contract, if already awarded, for such reason.

### Section 6: Equal treatment of all Bidders / Contractors / Subcontractors.

1. In case of sub –contracting, the Principal Contractor shall take the responsibility of adoption of Integrity Pact by the Sub – Contractor.
2. The Principal will enter into agreements with the identical conditions as this one with all bidders and Contractors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section 7: Criminal charges against violation Bidder(s) / Contractor(s) / Sub-contractors(s).

If the Principal obtains knowledge of conduct of a Bidder(s)/ Contractor(s) which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 : Independent External Monitor/Monitors

1. The Principal appoints competent and credible Independent External Monitor for this Pact after approval of Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. The Monitor will have access to all contract documents, whenever required. It will be obligatory for him to treat the information and documents of bidders /contractors as confidential. He reports to the Director, IIT Palakkad.
3. The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors.
4. The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/Contractor(s)/Subcontractor(s) with confidentiality. The Monitor has also signed declarations on “Non – Disclosure of Confidential Information” and of “Absence of Conflict of Interest” In case of any conflict of interest arising at a later date, the IEM shall inform the Director, IIT Palakkad.
5. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

6. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
7. The Monitor will submit a written report to the Director, IIT Palakkad within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.
8. If the Monitor has reported to the Director, IIT Palakkad, a substantiated suspicion of an offence under relevant IPC/PC Act, and the Director, IIT Palakkad has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.
9. The word “Monitor” word include both singular and plural.

#### Section 9 : Pact Duration

This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidder 6 months after the contract has been awarded.

If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by the Director, IIT Palakkad.

#### Section 10 : Other Provisions

- This agreement is subject to Indian Law. Place of performance and jurisdiction is the registered office of the Principal i.e. Palakkad, Kerala.
- Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- If the contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

- Issues like Warranty/Guarantee etc. shall be outside the purview of the IEMs.
- In the event of any contradiction between the Integrity Pact and its Annexure, the clause in the Integrity Pact will prevail.

(For & on behalf of the Principal)

(Office Seal)

(For & on behalf of Bidder/Contractor)

(Office Seal)

Place : \_\_\_\_\_

Date : \_\_\_\_\_

Witness 1 (Name & Address):

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Witness 1 (Name & Address):

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Witness 2 (Name & Address):

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Witness 2 (Name & Address):

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