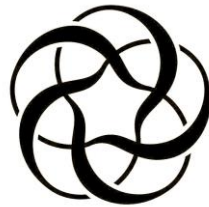


**NOTICE INVITING ENQUIRY FOR SUPPLY & INSTALLATION OF
LABORATORY EQUIPMENT
FOR WASTE CHARACTERIZATION LAB**

Tender No. IITPKD/CIE/PG/027/2018-19

Date of issue: 14.09.2018

Date of closing: 05.10.2018 at 3.00 pm



IIT PALAKKAD

**Indian Institute of Technology Palakkad
Ahalia Integrated Campus,
Kozhipara, Palakkad – 678 557**

Indian Institute of Technology Palakkad invites sealed Tender under Two-Bid System for **Supply Installation of Laboratory Equipment for Waste Characterization Lab** as per the specifications given in **Annexure - I**. The tender documents may be obtained from the Office of the **Registrar, IIT Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557** or downloaded from The <https://iitpkd.ac.in/tenders> and <https://eprocure.gov.in/cppp/> supply of tender documents will close on the last working day at **15:00 hours** before the last date for submission of the tenders.

The Technical Bid and the Commercial Bid shall be sealed by the bidder in separate covers duly superscribed as **Supply Installation of Laboratory Equipment for Waste Characterization Lab Technical Bid** a **Supply Installation of Laboratory Equipment for Waste Characterization Lab Financial bid** respectively and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed as **Tender for Supply Installation of Laboratory Equipment for Waste Characterization Lab - Tender No. IITPKD/CIE/PG/027/2018-19**. **The technical details of the equipment along with the filled-in format (Annexure-II) should be kept inside the Technical Bid envelope and sealed.** The tender must reach **Registrar, IIT Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557** by post or by hand on or before **05.10.2018 at 3.00 pm**.

Tenders received after due date/time will not be considered under any circumstances. Canvassing in any form will result in the disqualification of the bidder. Tenders sent by fax/email will not be considered. To avoid any complications with regard to Late Receipt/Non Receipt of Tenders, it may please be noted that responsibility rests with the bidder to ensure that the tenders reach the above mentioned address on or before the due date.

Instructions to Bidders including Terms and Conditions

1. Scope of Bid

1.1. Indian Institute of Technology Palakkad hereinafter called “**Purchaser**”, invites bid for **Supply Installation of Laboratory Equipment for Waste Characterization Lab**

2. Cost of Bidding

2.1. The Bidder shall bear all costs associated with the preparation and submission of its bid and the Purchaser shall in no case be responsible or liable for those costs regardless of the conduct or outcome of the bidding.

3. Tender Document

3.1. The Tender Document is not transferable.

3.2. The bidder shall make a copy of the tender document before submitting the same to the concerned office. No requests will be entertained for making a copy after the submission of the document.

4. Clarifications in Tender Document

4.1. The Purchaser will respond to any request for clarification or modification of the Tender Document that are received up to **FIVE (05) days** prior to the deadline for submission of bids prescribed by the Purchaser. For this purpose, the prospective Bidder(s) requiring clarification in the Tender Document shall notify the Purchaser in writing at the Purchaser’s address.

4.2. Written copies of the Purchaser’s response including the explanation of the query raised by the Bidders will be sent to all the Bidders who have purchased the Tender Document. Further, it will be assumed that the Bidder has taken into account such clarifications/explanations while submitting the bid.

5. Amendment of Tender Document

5.1. At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by way of amendment(s).

5.2. Amendments will be intimated in writing to all Bidders who have received the Tender Document and shall be binding on them. Further, it will be assumed that the Bidder has taken into account such amendments while submitting the bid.

6. Language of Bid

6.1. The bid prepared by the Bidder and all correspondence and documents related to the tender exchanged by the Bidder and the Purchaser shall be in English and the Contract shall be construed and interpreted in accordance with that language.

6.2. If any of the brochures, leaflets or communication is prepared in any language other than English, a translation of such document, correspondence or communication shall also be provided at the cost and risk of the bidder. The translation so provided shall prevail in

matters of interpretation. The bidder, with respect to such documents, correspondence, and communications, shall bear the costs and risks of such translation.

7. Documents Comprising the Bid

7.1. All bids must be substantially responsive and shall comprise the following:

- a. Earnest Money Deposit (EMD);
- b. Separate envelopes for technical as well as commercial bid sealed and put together in a sealed cover along with EMD.**
- c. Documents establishing conformity of the Equipment to the Tender Document;
- d. Bidder's company related information. The bidder should furnish photocopies of the PAN, GST and TIN.
- e. Copy of Tender Document marked "Original" with each page signed and stamped to acknowledge acceptance of the same;
- f. Any other information, which the Bidder wishes to provide.
- g. Users list of same or at least closely similar equipment supplied for similar purpose in **Karnataka/Tamil Nadu/ Telangana/Andhra Pradesh/Maharashtra or Kerala** .
- h. The bidder should have an authorized service center in **Karnataka/Tamil Nadu/ Telangana/Andhra Pradesh/Maharashtra or Kerala** or any other nearby city/town. Supporting documents mentioning the address of the service centres with telephone and Fax numbers should be attached with the bid.
- i. The bidder should have consistent annual turnover of at least **Rs. 25 Lakhs** for the last THREE financial years (2015-2016, 2016-2017 and 2017-2018) and should produce audited statement of accounts or statement of turnover certified by Chartered Accountant for the above mentioned financial years.

8. Format and Signing of Bid

8.1. The bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons authorized. All pages of the bid shall be numbered and except for unamendable printed literature, shall be initialed by the person or persons signing the bid.

8.2. The bid shall not contain any interlineations, erasures, or overwriting, except to correct errors made by the Bidder, in which case the person or persons signing the bid shall initial such corrections.

9. Sealing and Marking of Bids

9.1. The Bidder shall seal the bid in an envelope.

9.2. The envelope shall

(a) be addressed to **The Registrar, IIT Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad – 678 557.**

(b) bear the reference number, the title of the Tender Document and

(c) bear the name and address of the Bidder so that the bid can be returned unopened in case it is declared late.

9.3. If the outer envelope is not sealed and marked as required above, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.

9.4. Cable/Facsimile or Fax/conditional Bids shall be rejected.

10. Bid Prices

10.1. Prices must be quoted separately for each equipment/item identified.

10.2. Price quoted for equipment must include all costs associated with packing, transportation, insurance, all duties and levies, delivery of equipment, loading and unloading on DOOR DELIVERY basis to the institute including its installation, commissioning, integration and validation.

10.3. In case of equipment originating in other countries, prices shall be quoted both on FOB (port of shipment) and CIF (Port of Destination) and CIP (Carriage and Insurance Paid). The comparable prices will be arrived at based on **CIP Cochin basis**.

In the case equipment originating in other countries, the bidder shall provide the following at the time of supply, within 24 hours of despatch:

- a) Supplier's Invoice giving full details of the goods including quantity, value, etc.;
- b) Packing list;
- c) Certificate of country of origin;
- d) Manufacturer's guarantee and Inspection certificate;
- e) Inspection certificate issued by the Purchaser's Inspector;
- f) Insurance Certificate;
- g) Name of the Vessel/Carrier;
- h) Bill of Lading/Airway Bill;
- i) Port of Loading;
- j) Date of Shipment;
- k) Port of Discharge & expected date of arrival of goods and
- l) Any other document(s) as and if required in terms of the contract.

10.4. Price of Annual Maintenance Contract (AMC) for **FIVE** years after the warranty period shall be quoted separately for each equipment in the format provided in **Annexure-III**. Purchaser reserves the right to negotiate on AMC.

10.5. Prices quoted by the Bidder shall be firm during the validity of the bid.

11. Bid Currency

11.1. Prices of indigenous equipment/items shall be quoted in Indian Rupees.

11.2. Prices of equipment/items originating in other countries shall be quoted in the currency of country of origin and the portion of allied work and services, which are to be undertaken in India, are to be quoted in the Indian Currency. The comparison of financial bids would be done after converting the currency value in INR based on RBI rates applicable on the date of opening of the tender.

12. Conformity of the Tender Document

12.1. The Bidder shall furnish, as part of its bid, documents establishing the conformity of the Equipment that the Bidder proposes to supply under the Contract to the requirements of the Purchaser, as given in the Tender Document.

12.2. The documentary evidence of conformity of the Equipment to the Tender Document may be in the form of written descriptions supported by literature/diagrams/certifications, including:

- (a) A detailed description of the essential technical, functional and performance characteristics of the Equipment that the Bidder is proposing to supply;

(b) Technical details of the major subsystems/components of the Equipment;

13. Earnest Money Deposit (EMD)

13.1. The Bidder shall furnish, as part of its bid, an **EMD @ 2%** on estimated value and that shall be interest free.

13.2 The firms who are registered with National Small Industries Corporation (NSIC) / or Small Scale Industrial (SSI)/ Micro & Small Enterprises (MSEs) are exempted to furnishing the EMD. Self-attested photocopy of valid registration certificate issued by competent authority for supply of laboratory equipment must be enclosed with the technical bid.

13.3. The EMD shall be in the form of a demand draft drawn in favour of **INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD** and payable at **PALAKKAD**

13.4. Any bid not accompanied with the EMD shall be rejected by the Purchaser as non-responsive.

13.5. The successful bidder's bid security will be returned as promptly as possible, but not earlier than fifteen (15) days after the successful Bidder has furnished the required performance security.

13.6. The EMD may be forfeited under the following circumstances:

(a) If a Bidder:

(i) Withdraws its bid during the period of bid validity specified on the Bid Form or

(b) In the case of the successful Bidder, if the Bidder fails to:

(i) Sign the Contract or

(ii) Furnish performance security.

14. Period of Validity of Bids: Bids shall remain valid for a period of 180 days after the date of deadline for submission of bids prescribed by the Purchaser.

15. Deadline for Submission of Bids

15.1. Bids must be received by the Purchaser at the address specified not later than the time and date as stated. In case this date happens to be a declared holiday for the office of the Purchaser or happens to be a holiday declared incidentally, the Bids shall be received up to the appointed time on the next working day.

15.2. The Purchaser may, at its discretion, extend this deadline for submission of bids in which case all rights of the Purchaser and all obligations of the Bidders will thereafter be subject to the deadline as extended.

16. Late Bids: Any bid received by the Purchaser after the bid submission deadline prescribed by the Purchaser, shall be rejected and returned unopened to the Bidder.

17. Modification and Withdrawal of Bids

17.1. The Bidder may modify or withdraw the bid after submission, provided a written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for bid submission.

17.2. The Bidder's modifications shall be prepared, sealed, marked and dispatched as follows:

(a) The Bidders shall provide the modification to its bid, clearly identified as such, in an envelope duly marked **BID MODIFICATION**.

17.3. A Bidder wishing to withdraw the bid shall notify the Purchaser in writing prior to the deadline prescribed for bid submission. The withdrawal notice shall:

(a) be addressed to the Purchaser at the specified address and

(b) bear the reference number and the title of the project, and the words **BID WITHDRAWAL NOTICE**. Bid withdrawal notices received after the bid submission deadline will be ignored and the bid submitted prior to that will be deemed to be a valid bid.

17.4. No Bid may be modified subsequent to the deadline for submission of Bids.

17.5. No bid may be withdrawn in the interval between the bid submission deadline and the expiration of the bid validity period. Withdrawal of a bid during this interval may result in the forfeiture of the Bidder's EMD.

18. Opening and Examination of Bids

18.1. The Technical bids will be opened on the prescribed date and time as mentioned in the Bid document. Bidders or their representative may be present during the opening of technical bid, if they wish to be present.

18.2. The purchaser will evaluate the technical bids. Those bids, whose technical bids fulfill the technical requirements and responsive to the tender requirements will be considered. Those bids which found to be either non-responsive, not satisfying the technical requirements or both will not be considered and will be rejected.

18.3. The Price bids of the successful bidders on the basis of evaluation as mentioned in 18.2 will be considered for the next stage for opening.

18.4. The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required security has been furnished, whether the documents have been properly signed and whether the bids are generally in order.

18.5. Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price, which is obtained by multiplying the unit price and quantity, or between subtotals and the total price, *the unit or subtotal price shall prevail* and the total price shall be corrected. If there is a discrepancy between words and figures, *the amount in words shall prevail*. If a Bidder does not accept the correction of errors, the bid will be rejected and its EMD may be forfeited.

18.6. The Purchaser may waive any minor nonconformity or irregularity in a bid that does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.

18.7. Prior to the detailed evaluation, the Purchaser will determine whether each bid is complete and is substantially responsive to the Tender Document. For purposes of this determination, a substantially responsive bid is one that conforms to all the terms, conditions and specifications of the Tender Document without material deviations, exceptions, objections, conditionality or reservations. A material deviation, exception, objection, conditionality, or reservation is:

(a) One that limits in any substantial way the scope, quality, or performance of the Equipment;

OR

(b) One that limits, in any substantial way that is inconsistent with the Tender Document, the Purchaser's rights or the successful Bidder's obligations under the Contract; and

(c) One that the acceptance of which would unfairly affect the competitive position of other Bidders who have submitted substantially responsive bids.

18.8. If a bid is not substantially responsive, it shall be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

The Purchaser's determination of bid responsiveness will be based on the contents of the bid itself and any written clarifications submitted by the Bidder.

19. Clarification of Bids: During the bid evaluation, the Purchaser may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing, and no change in the price or substance of the bid shall be sought, offered or permitted.

20. Evaluation of Responsive Bids: The Purchaser will evaluate the bids that have been determined to be substantially responsive.

21. Contacting the Purchaser

21.1. From the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bid, it shall do so in writing.

21.2. If a Bidder tries to directly influence the Purchaser or otherwise interfere in the bid evaluation process and the Contract award decision, his bid shall be rejected.

22. Award Criteria

22.1 Purchaser will award the Contract to the Bidder whose bid has been determined to be substantially responsive and the Lowest Quote Evaluated Bid.

22.2 The Institute reserves the right to buy different items/quantity from different bidders considering price of individual/group of equipment or any other factors as decided by the committee.

23. Purchaser's Right to Accept/Reject/Modify Bids

23.1. The Purchaser reserves the right to accept or reject any bid or to annul the bidding process and reject all bids at any time prior to Contract award, without thereby incurring any liability to the Bidders.

23.2. The Purchaser reserves the right to negotiate with the Bidder having the Lowest Evaluated Bid.

24. Award of Purchase Order

24.1. Prior to the expiration of the period of bid validity, the Purchaser will issue the Letter of Intent / Purchase Order to the successful Bidder in writing.

24.2. The Purchase Order will constitute the foundation of the Contract.

24.3. Upon the successful Bidder's furnishing of the copy of the Purchase Order duly signed on each page and the Performance Security, for the equipments ordered in foreign currency, the Purchaser will open a letter of credit (LC) in a convenient Nationalized Bank in India. For opening of LC necessary arrangements shall be provided by the supplier or its authorized agents.

25. Contract Agreement

25.1. Within fifteen (15) days of receipt of the Purchase Order, the successful Bidder shall sign and date its copy on each page and return it to the Purchaser, along with the Performance Security.

25.2. Copy of Purchase Order duly signed and dated by the successful Bidder on each page shall constitute the Contract Agreement.

26. Performance Security

26.1. Within fifteen (15) days of receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security equal to 5% of the Contract value (excluding the value of annual maintenance charges). **The Performance Security will be valid all along the warranty period and shall extend upto sixty (60) days after the date of completion of warranty period.**

26.2. The security shall be in one of the following forms:

(a) A bank guarantee (in the format as provided in **Annexure-V** of the bidding documents) issued by the Indian Scheduled bank acceptable to the Purchaser.

(b) A Demand Draft favouring, **INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD** payable at PALAKKAD.

26.3. The 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 security shall be returned to the Supplier not later than fifteen (15) days after its expiration.

26.4. Failure of the successful Bidder to comply with the requirements shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD, in which event the Purchaser may make the award to the next lowest evaluated bid submitted by a qualified Bidder or call for new bids.

27. Contract Documents

27.1. 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.

27.2. The order of precedence of the Contract documents will be as follows:

(i) Contract Agreement

(ii) All other Forms

(iii) Equipment and their Requirements

(iv) Supplier's Bid

(v) Tender Document

28. Amendment to Contract: 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.

29. Supplier's Responsibilities

29.1. The Supplier's obligations involve:

(a) Supply of Equipment/items given in Tender Document.

- (b) Making operational the Equipment (installation, commissioning & validation of Equipment).
- (c) Development of test methods & applications.
- (d) Training, at the cost of Supplier, of personnel in operation, day-to-day maintenance and troubleshooting of the Equipment.
- (e) Supply of Material (instruction/operation/service/maintenance manuals including drawings & circuit diagrams and application notes), Calibration Certificates (where applicable, traceable to national/international standards) and any other documents specified in the Contract.
- (f) Maintenance of the equipment during and after the warranty period (Five Years of AMC after the warranty of three years).

29.2. The Supplier shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items, services and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for installation & commissioning, integration & validation of Equipment as if such work and/or items and Materials were expressly mentioned in the Contract.

29.3. The Supplier shall comply with all laws in force in India. The laws will include all national, provincial, municipal or other laws that affect the performance of the Contract and are binding upon the Supplier. The Supplier shall indemnify and hold harmless, the Purchaser from and against any and all liabilities, damages, claims, fines, penalties and expenses of whatever nature arising or resulting from the violation of such laws by the Supplier.

30. Time for Supply, Installation, Commissioning and Validation of the Equipment

30.1. The Supplier shall supply the Equipment within the period specified in the tender document i.e. **within 4 - 10 weeks of signing the purchase order or within the period mutually agreed between purchaser and supplier.**

30.2. Installation and commissioning: The vendor should take full responsibility for the supply, installation, testing and commissioning of all the tendered equipment. Installation and commissioning should be carried out at IIT Palakkad by trained and experienced service engineers. The installation, testing and commissioning should be completed within 3 weeks from the date of delivery. The performance of the system should be demonstrated to the satisfaction of the faculty/staff of IIT Palakkad.

30.3. Demonstration : Upon request from IIT Palakkad, if required, the vendor should arrange demonstration of the equipment offered, free of charge on a mutually agreeable place and date prior to opening of financial bid to ascertain their conformity with tendered specifications. Unsatisfactory demonstration may lead to disqualification of the vendor.

31. Terms of Payment

31.1. For **indigenous equipment**, 90% payment will be released after satisfactory delivery, installation of the equipment and remaining 10% will be released on submission of a Bank Guarantee for equivalent value (5%) as performance security to cover the warranty period .

31.2. For **imported equipment**, normally a letter of Credit will be opened for 100% CIP price on receipt of order of acknowledgement. However, 50% of the LC amount **only** will be paid on proof of the shipment of the consignment with necessary documents to be detailed at the time of placing of the purchase order. Balance of 50% of the LC amount shall be released after receipt

of a performance bond of 5% of the total contract/purchase value in the form of bank guarantee covering the warranty period, obtained from a bank which has its office in India.

31.3. For equipment ordered in foreign currency, opening of LC, Payment of Customs Duty and clearance of goods shall be done/assisted by the supplier or its authorized Indian agent. The custom duty as applicable after considering eligible concessions based on DSIR exemption etc will only be paid by the purchaser. The Institute can provide the copy of the DSIR customs and excise duty exemption certificate upon request.

31.4. Payment for annual maintenance contract after the warranty period shall be released at the end of six month/1 year after the expiry of warranty period, subject to Government of India norms.

31.5. If any time before the delivery of the equipment, it is found that the same equipment have been offered to another party in India at a lower rate, payment shall be restricted to the extent of such lower rate and the Supplier shall be liable to pay the Purchaser the difference in two rates i.e. excess charged over such lower rate, if payment had been made by the purchaser. The Institute will look into a reasonable past period to ensure this.

32. Taxes and Duties: The Supplier should ensure payment of all taxes, duties, levies and charges assessed by all municipal, state or national government authorities, in connection with the Goods and Services supplied under the Contract.

33. Product Upgrades: 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.

34. Penalties

34.1. If the Supplier fails to complete any of the activities in accordance with the time specified for it, or any extension of the time granted by the Purchaser, the Supplier shall pay to the Purchaser penalties at the rate specified in the Tender document.

34.2. The Purchaser reserves the right to terminate the contract if the Supplier defaults on any of the time limits by more than **FOUR** weeks.

35. Defect Liability

35.1. The Supplier warrants that the Equipment, including all subassemblies and components provided, shall be free from defects in the design, engineering/manufacturing, workmanship and performance that prevent the Equipment and/or any of its subassemblies and components from fulfilling the Equipment Requirements or that limit in a material fashion the operation, reliability, accuracy, sensitivity and precision of the Equipment, its subassemblies and components. Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract.

35.2. The Warranty Period shall commence from the date of validation of the Equipment and shall extend for the length of time specified in the tender document supra.

35.3. If during the Warranty Period any defect found in the Equipment, the Supplier shall promptly, at its sole cost, repair or otherwise make good such defect as well as any damage to

the Equipment caused by such defect. Any defective Equipment, Subassembly or component that has been replaced by the Supplier shall become the property of the Supplier and the new substituted/replaced equipment in good condition shall become the property of the purchaser.

35.4. Validation of the Equipment shall be carried out by the Supplier each time a major repair is carried out in the Equipment during the warranty period.

35.5. Response time for attending to defects shall be 24 - 48 hours after they are reported to the Supplier or its designated service agent. If the Equipment cannot be used for more than TWO working days by reason of such defect and/or making good of such defect, the warranty period for the Equipment shall be extended by a period equal to the period during which the Equipment could not be used by the Purchaser because of such defect and/or making good of such defect.

36. Intellectual Property Rights Warranty and Indemnity

36.1. The Supplier hereby represents and warrants that the Equipment as supplied, installed & commissioned along with its Application Software and copying of Manuals & other documents provided to the Purchaser in accordance with the Contract does not and will not infringe any Intellectual Property Rights held by any third party.

36.2. The Supplier shall indemnify and hold harmless the Purchaser from and against any and all losses, liabilities and costs (including losses, liabilities and costs incurred in defending a claim alleging such a liability), that the Purchaser may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights.

37. Effect of Force Majeure

37.1. 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 Purchaser in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fifteen (15) days after the occurrence of such event.

37.2. 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 Purchaser's right to terminate the Contract.

37.3. No delay or non-performance by the Supplier caused by the occurrence of any event of Force Majeure shall:

- (a) Constitute a default or breach of the Contract;
- (b) Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance.

37.4. If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than THIRTY days or an aggregate period of more than sixty

(60) days on account of one or more events of Force Majeure, the Purchaser shall have the right to terminate the Contract by giving a notice to the Supplier.

38. Extension of Time Limits for supply & making operational the Equipment

The time limit for supply, installation & commissioning, integration & validation shall be extended if the Supplier is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

- (a) Any occurrence of Force Majeure;
- (b) Any other matter specifically mentioned in the Contract;

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.

39. Assignment: The Supplier shall not, without the prior written consent of the Purchaser, assign to any third party, the Contract or any part thereof.

40. Governing Law: The Contract shall be governed by and interpreted in accordance with the laws of India.

41. Settlement of Disputes : Any dispute or claim arising out of/relating to this Contract or the breach, termination or the invalidity thereof, shall be settled by the Hon'ble Courts of Justice at Palakkad.

42. 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 **Annexure-VI**

43. *Indian Institute of Technology Palakkad 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.*

ANNEXURE I: TECHNICAL SPECIFICATIONS

BOD INCUBATOR

The equipment should have incubator with PID control for temperature and speed adjustment.

The system should have the facility to control temperature uniformly and precisely.

The equipment should have CFC free/HFC free polyurethane insulation foam for outstanding temperature performance and condensation prevention.

The provision for controlling humidity and CO₂ is preferred.

The system should have heated door with intelligent energy control to ensure reduced condensation – even at low temperatures.

The equipment should have the provision to adapt the fan speed automatically to achieve optimal temperature performance.

The equipment should also satisfy the following specifications:

Capacity: 300 L – 400 L

Temperature range: 5 - 70oC

Temperature deviation over time: < ± 0.5 at 20oC; < ± 0.1 at 37oC.

Spatial temperature deviation: ≤ ±0.3 at 20oC; ≤ ±0.7 at 37oC

The equipment should have outstanding temperature uniformity [0.3°C (at +25°C)] and stability (0.1°C) to keep the samples in a safe environment.

Energy consumption: <150 Wh/h

Temperature display: Digital LED

A system with minimum footprint is preferred.

No of trays: minimum 3 with provision of 10.

Material construction: Stainless steel (interior); coated sheet metal (Exterior).

ORBITAL SHAKER

The equipment should have temperature controlled Orbital shaker with microprocessor based PID controller.

Equipment should have smooth way Start/Stop option in order to prevent spillage or breakage of cell/flasks.

Electro mechanical components of the equipment should be protected from accidental spillage.

Equipment should have auto restart option with previously set parameters after power failure.

The system should be equipped by heavily insulated chamber with see through door.

Equipment should have temperature controller with LED/LCD display.

Equipment should have a thermostat cut-off over temperature.

In addition, the oven should have the following features:

Temperature accuracy ± 0.1oC

The diameter of orbital motion: < 26 mm

Motor: Triple eccentric drive

Clamps to hold flask of various sizes

Shaking Range (stackable) : 15 to < 500 rpm ±1

Frequency : 50 Hz

Shaking Motion : Orbital

Temperature Range : < 5°C to 80°C

Material of Construction : Interior SS; Exterior powder coated steel

The equipment can be stacked to double the shaking capacity.

The equipment should have platform with preinstalled clamps include 125 ml flask clamps (2), 250 ml flask clamps (4), 500 ml flask clamps (4), 1L flask clamps (2), 2L flask clamps(2) and test tube rack (14mm – 16 mm).

REFRIGERATED CENTRIFUGE

Microprocessor controlled refrigerated centrifuge for solid-liquid separation (biological samples, nanoscale materials etc.).

The system should qualify international safety standards for laboratory applications.

The system should have low noise level and should be less than <60 dBA at maximum speed.

The system should be user-friendly and should have easy and trouble free auto lock rotor exchange mechanism.

The system should be glove and detergent friendly.

The refrigeration system should be CFC free.

The system should be provided with fixed angle rotors that can handle the different volume of samples.

The rotor should be removed without using any tool.

The system should allow pulse (short) run.

The centrifugal chamber should be made of high-quality stainless steel and should have excellent chemical resistance and strength.

The system should be durable, stable and reliable.

In addition to the above mentioned condition, the system should also qualify the following technical specifications:

Max rotor speed: 15,000 -20,000 rpm

Max relative centrifugal force (RCF): $\geq 30,000 \times g$ or higher

Rotor capacity: 50 mL, 15 mL, and < 2mL

Min speed: ≤ 300 rpm

Maximum timer range ≥ 90 h continuous

Temperature range -10°C to 40°C

Drive system: Direct, brushless induction

MUFFLE FURNACE

The equipment should have digital temperature programmable Muffle furnace with indicator for heating samples at elevated temperature as high as 1200°C .

The Equipment should be compact and bench mounted unit

Equipment should have over temperature power cut off system, door safety switch, temperature alarm, and thermocouple break protection.

A port in chamber rear for monitoring temperatures with independent measuring devices is preferred.

A display unit to show both set point and actual furnace temperatures in $^{\circ}\text{C}$.

The equipment should have power cord and ceramic shelf or heat tray to protect bottom heating element.

The inner body of the equipment should insulated with the ceramic insulation.

The system should have temperature ramping facility to vary the heat-up rate and dwell cycles.

The system should have the facility to control the heating rate and heat distribution in the chamber must be uniform.

In addition, the furnace should have the following features:

Capacity = 4 to 6 L

Internal Dimensions of the furnace (Depth ×Width × Height) in mm : ~250×200×150
(± 20 mm in dimensions is acceptable).

Temperature range: 100°C - 1200°C

Temperature Control: Through microprocessor-based PID controller.

Accessories including stainless Steel Tongs (15-20 Inch, 2 nos.) and furnace gloves (2 pairs) should be provided with the system.

HOT AIR OVEN

The ovens should have mechanical convection/ forced air circulation.

The Inner chamber of the oven should be made of Stainless Steel with rounded corner for ease of clean and better contamination control.

The system should have shelving system that can be fitted inside the chamber with just one click.

The ovens interface should be microprocessor controlled and should be a vacuum fluorescent display with touch button control.

The ovens should have an automatic over temperature alarm.

The oven should be provided with 3 shelves as standard and should be capable of accommodating a maximum of 8 shelves or more. Each of the shelves should be capable of accommodating a load of 25 Kg.

The oven should have a manual damper for venting out the chamber air.

The door should be able to open at 180° angle for complete access to chamber interior.

The ovens should have the basic on/off timer to automate on and off cycle after a pre-set time.

The ovens should have optional accessories like additional shelf, stacking kit and support stand with castors.

In addition, the oven should have the following features:

Capacity: 150 L – 200 L

Temperature Range 50°C to 250° C

Temperature Deviation at 150°C : ±2.5°C for 100 L units

Temperature Deviation over Time at 150°C : ±0.3°C

QUALIFICATION REQUIREMENT

1. Bidder qualifications

- a) The Bidder must be an Original Equipment Manufacturer (OEM) of all the quoted equipment or his Authorized Dealer/Authorized Distributor/ Authorized Stockist/ Channel Partner having a Direct Purchase and Support agreement with the OEM. If the Bidder is a Dealer/Distributor, the bidder should provide a copy of valid LETTER OF AUTHORIZATION from the Original Equipment Manufacturer for Dealership. The manufacturer/dealer attempting to quote for the equipment for which they are not the OEM/authorized dealer, their offers will be rejected.

2. Performance Certification

- a) The bidder should have supplied and installed the quoted item or similar equipment to organizations such as IITs, IISc, NITs, DRDO, IISER, and CSIR labs. Supporting documents such as purchase orders, work completion certificates should be attached with the bid. An undertaking to provide comprehensive onsite maintenance during the warranty and AMC periods for the equipment should be given by the bidder.
- b) Vendor should also enclose the reference with contact details and the performance certificate along with the technical bid.
- c) The bidder must produce certificates of satisfactory performance and service support from the end-users.
- d) The list of end-users specifically for the quoted item or similar equipment along with the complete name, address and contact numbers of the user organizations/persons should be submitted with the quotation.
- e) IIT Palakkad, may gather feedback from the users about the particular model specified in the quote, or similar equipment, and about the general service and maintenance provided by the vendor. The feedback may also be sought from users, who are not listed by the vendor. Negative feedback from the users may be considered for rejection.

3. Specifications

- a. It should be ensured that the bids must be strictly as per IIT Palakkad's specifications mentioned in Annexure I. At the same time, it must be kept in mind that merely copying IIT Palakkad's specifications in the quotation shall not make the parties eligible for consideration of the quotation. **A quotation has to be supported with a printed copy of published technical catalogue and photographs showing all the components of each item included in the quotation. Quotations without proper technical documents and catalogues will be summarily rejected without providing any opportunity for clarifications/negotiations by the vendor.** The model quoted should be highlighted in the leaflet/literature enclosed with the quotation. Non-compliance of the above shall be treated as incomplete/ambiguous, and the offer can be ignored without giving an opportunity for clarification/negotiation, etc., to the quoting party. Lack of clarity in any information will be treated as lack of information.
- b. The technical bid shall be evaluated for acceptability. Before issuing the purchase order, the eligible vendor should be prepared to make a technical presentation within 15 days from the date of notification, if required. If the manufacturer is using a

component manufactured by another manufacturer, the vendor should clearly specify the make, brand, and name of the manufacturer.

5. Compliance statements

Vendors must furnish a Compliance Statement of each and every required specification of IIT Palakkad's tender in the format as shown in **Annexure IV**. The deviations, if any, from the tendered specifications should be clearly brought out in the statement, and may be considered during evaluation.

6. Technical / maintenance manual

The successful bidder should be supplied user/technical/maintenance manual along with certificate of calibration and inspection of each equipment

7. Infrastructure requirements

The bidder should clearly give in writing, the requirements that have to be arranged by the institute for proper functioning of the equipment within two weeks after the release of purchase order.

8. Acceptance test

Acceptance tests will be carried out to check the performance of all the equipment as per technical specifications of IIT Palakkad. The selected vendor should demonstrate the basic and advanced tests. Any modifications suggested by the faculty/staff of IIT Palakkad should be incorporated by the vendor.

9. Maintenance and service support

The vendor should have competent and reliable service network in India for performing quick and necessary repair and maintenance of all the components of the tendered equipment. Details of the nature of service support and which vendor can provide it, should be given along with the technical bid. The service provider should have a history of providing such services for the past 5 years, and should be supported with corroborating documents. The details provided by the vendor in this regard should be convincing to IIT Palakkad.

10. Operation and Maintenance Training

The vendor should arrange for operational and maintenance training of all the tendered equipment for the faculty/staff of IIT Palakkad.

Technical Bid**(To be enclosed in a separate sealed cover)**

Company Profile	
Name	
Address of the registered office	
Name & Designation of CEO	
Nature of Business Email ID & Contact numbers of CEO	
Years of operations in India Years of Established	
Location of offices in India	
Alliances for the purpose of this Bid	
Details of alliance(s)	
Type of alliance(s)	
Experience/Credentials	
Number of similar units installed in India	
Number of similar units installed in Karnataka/Tamil Nadu/ Telangana/Andhra Pradesh/Maharashtra or Kerala or any other nearby city/tow	
*List of satisfied customers in India	
Service Support in India	
Track record of service provided to clients with supporting documents for past three years	
Location of service centers	
Number of trained service engineers	
Number of trained service engineers exclusively dedicated to each equipment offered	
Number of trained service engineers for the equipments offered stationed in Karnataka/Tamil Nadu/ Telangana/Andhra Pradesh/Maharashtra or Kerala or any other nearby city/town	
Number of application specialists	
Whether the OEM makes available any service support in India	
Availability of spares in India	
Whether the service set up maintains stock of essential spares in India	
Lead time for supply of essential spares	

***Testimonials from three satisfied customers may be attached**

- Compliance Statement to specifications of the equipment to be provided by the tenderer as in Annexure-IV.**
- All equipment must operate at 230V/50 Hz single phase and/or equivalent three phase electrical power.**
- Quoted model shall be in accordance to the geographical location.**

Signature _____

Name _____

Designation _____

Date: _____ Place: _____

Seal of Company _____

Other Details:

Name and Address of the bidder

Note: All the following details shall relate to the vendor for the items quoted for

1. Name of the Bidder

- a. Full postal address
- b. Full address of the premises
- c. Telegraphic address
- d. Telex number
- e. Telephone number
- f. Fax number
- g. Type of firm: Propriety/ Private/ Private Ltd/ MNC/ Cooperative /Govt. undertaking
- h. Name of the proprietor /Partners
- i. Firm Registration No.
- j. Year of starting of manufacturing
- k. PAN Number
- l. TIN Number
- m. GST Number
- n. Current Account Details

2. EMD of 2% Rs. DD No. Dated :

3. Total Annual Turn-over (value in Rupees) (2015-2016, 2016-2017 and 2017-2018)
(Certified proof from competent authority to be attached)

4. Has the firm ever been debarred/blacklisted by any Govt. Organization/Dept.? If 'yes' the details thereof.
The terms and condition or acceptable to me/us.

Signature and seal of the bidder

Commercial Bid**(To be enclosed in separate sealed cover)**

1. The price of the Lab Equipment in the **Annexure-I** is to be given individually in the format mentioned below:

Sl. No.	Name of the Equipment	No. of Units/ Sets	Cost per Unit/Set	Total Cost (Inclusive of all taxes & delivery /installation charges)
1.				
Grand Total (Inclusive of all taxes)			(In Figures)	
(In Words)				

2. The quote should include a warranty of **THREE** years from the date of commissioning/installation of seven equipment and AMC for **FIVE** years. The format for AMC is provided below:

Sl. No.	Annual Maintenance Contract (AMC) after the Warranty Period				
	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year
Name of the Equipment					

3. Maximum educational discount as could be offered should be mentioned.

4. *Price quoted for equipment must include all costs associated with packing, transportation, transit insurance, all duties and levies, delivery of equipment, loading and unloading on DOOR DELIVERY basis to the Institute at Palakkad including its installation, commissioning, integration and validation.*

Signature and seal of the bidder

ANNEXURE IV : COMPLIANCE STATEMENT OF SPECIFICATIONS

Instructions for filling the Compliance Statement of Specification

The vendor should prepare, sign and submit the Compliance Statement of Specification **in the given format** along with the technical bid.

submit separate Compliance Statement of Specification sheets for each item/ equipment.

Ensure that the component number and heading in the Technical Specifications is clearly mentioned in the document. If there are any deviations from the specifications mentioned by IIT Palakkad, the vendor should clearly indicate the deviations and give reasons for the deviation with proper justification.

Technical leaflet/literature/catalogue or any relevant document for all the quoted equipment should be provided to IIT Palakkad. The information provided in the compliance statement without supporting documents may not be considered for the evaluation of the technical bid.

If the supporting documents are not available for any information provided in the compliance sheet, it may be treated as non-compliance and may lead to the disqualification of the technical bid.

The vendor should clearly respond to every requirement given in the technical specification. Lack of clarity may be considered as lack of information and may subsequently lead to disqualification of the technical bid.

Item No.	IIT Palakkad's technical specification of components as given in Annexure I	Specifications of model quoted by the vendor	Vendor's specification complies with IIT Palakkad's technical specification? (YES/ NO)	Deviation, if any, to be indicated in unambiguous terms	Page no. of relevant specification for the quoted model in the technical manual/leaflet

FORM OF PERFORMANCE SECURITY (GUARANTEE) BY BANK

1. This deed of Guarantee made this day of _____ between Bank of _____ (hereinafter called the “Bank”) of the one part, and Indian Institute of Technology Palakkad (hereinafter called “the Purchaser”) of the other part.
2. Whereas the Purchaser has awarded the contract for Supply, Installation, Commissioning, Integration and Validation of _____ (name of the equipment) (hereinafter called the contract) to _____ (hereinafter called the Supplier); (Name of the Supplier)
3. AND WHEREAS the Supplier is bound by the said Contract to submit to the Purchaser a Performance Security for a total amount of Rs. _____ (Amount in figures and words).
4. Now, I/we the undersigned, being fully authorized to sign and to incur obligations for and on behalf of and in the name of _____ (Full name of Bank), hereby declare that the said Bank will guarantee the Purchaser the full amount of Rs. _____ (Amount in figures and words) as stated above.
5. After the Supplier has signed the aforementioned Contract with the Purchaser, the Bank is engaged to pay the Purchaser, any amount up to and inclusive of the aforementioned full amount upon written order from the Purchaser to indemnify the Purchaser for any liability of damage resulting from any defects or shortcomings of the Supplier under the Contract mentioned above, whether these defects or shortcomings are actual or estimated. The Bank will deliver the money required by the Purchaser immediately on demand without delay without reference to the Supplier and without the necessity of a previous notice or of judicial or administrative procedures and without it being necessary to prove to the Bank the liability or damages resulting from any defects or shortcomings of the Supplier. The Bank shall pay to the Purchaser any money so demanded notwithstanding any dispute/disputes raised by the Supplier in any suit or proceedings pending before any Court relating thereto and the liability under this guarantee shall be absolute and unequivocal.
6. This Guarantee is valid for a period of thirty six months from the date of signing. (Initial period for which this Guarantee will be valid must be for at least thirty (30) days longer than the anticipated expiry date of warranty period).
7. At any time during the period in which this Guarantee is still valid, if the Purchaser agrees to grant a time extension to the Supplier or if the Supplier fails to complete the work within the time of completion as stated in the Contract, or fails to discharge himself of the liability or damages as stated under Para 5 above, the Bank shall extend this Guarantee under the same conditions for the required time on demand by the Purchaser and at the cost of the Supplier.
8. The Guarantee herein before contained shall not be affected by any change in the Constitution of the Bank or of the Supplier.
9. The neglect or forbearance of the Purchaser in enforcement of payment of any moneys, the payment whereof is intended to be hereby secured or the giving of time by the Purchaser for the payment hereof shall in no way relieve the bank of its liability under this deed.

10. The expressions “the Purchaser”, “the Bank” and “the Supplier” herein before used shall include their respective successors and assigns.

In witness whereof I/We of the bank have signed and sealed this guarantee on the _____ day of _____ (Month & Year) being herewith duly authorized.

For and on behalf of the _____ Bank.

Signature of Authority

Bank official Name: Designation:

Stamp/Seal of the Bank:

Signed, sealed and delivered for and on behalf of the Bank by the above named _____ in the presence of:

Witness 1

Signature

Name

Address

Witness 2

Signature

Name

Address

Declaration

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 _____.

Signature and seal of the bidder