

Indian Institute of Technology Palakkad

भारतीयप्रौद्योगिकीसंस्थानपालक्काड

STORES & PURCHASE SECTION

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Tender No. TENDER/2022-23/PRJ_052
Date of Publication: 14-09-2022
Date/Time of Closing: 04-10-2022, 1500 hours

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

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF

Thermal Environmental Chamber

Conforming to the specifications as in BoQ Technical.

Tender Documents may be downloaded from the e-Wizard Portal https://mhrd.euniwizarde.com/. Aspiring Bidders who have not enrolled / registered in e-Wizard should enroll / register before participating through the website https://mhrd.euniwizarde.com/. 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.euniwizarde.com/ 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	Publication of the Tender Document	14-09-2022
2	Last Date/Time for submission of ONLINE Bids	04-10-2022, 1500 hours
3	Opening of Technical Bids	04-10-2022, 1515 hours

Note:

- 1. The bidder should be a Class-I / Class-II Local Supplier meeting the requirement as per the Order No. P-45021/2/2017-PP (BE-II) issued by the Public Procurement Section, DPIIT, Ministry of Commerce and Industry, GOI dated 16-09-2020.
- 2. Bidders other than Class-I / Class-II Local Suppliers, who may participate in this tender, may be doing so at their own risk. Such bids would not be considered and rejected outright

TERMS AND CONDITIONS

1 GENERAL	 (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. (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. (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. (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. (e) 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. (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.
	 (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. (h) The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Tender Document. (i) The Supplier shall not, without the prior written consent of the IITPKD, assign to any third party, the Contract or any part thereof.

2	COMPOSITION OF THE	(a) The Tender Document comprises of:
	TENDER DOCUMENT	Instruction to the bidders including terms and conditions
		Technical Specifications (Annexure-I)
		2. Format For Self-Certification Under Preference To Make In
		India(Annexure-II)
		3. Undertaking by the Bidder (Annexure-III)
		4. Fall Clause Notice Certificate (Annexure-IV)
3	DOCUMENTS	(a) The Technical, Techno-commercial and Commercial Bids (Cover
	COMPRISING THE BID	One) and Commercial Bid (Cover Two) shall be submitted ONLINE
		through the e-Wizard Portal.
		(b) Bids submitted in any mode other than ONLINE will be rejected
		outright.
		(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.
		(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.
		(e) Compliance or Confirmation report with reference to the specifications
		and other terms and conditions should also be obtained from the principal.
		(f) Information related to the agency/bidder such as photocopies of the Registration/PAN/GST/TIN shall be furnished.
		(g) The technical bid should consist of all technical details along with commercial terms and conditions. No prices should be included in the
		technical bid. Mentioning of Prices in the Technical Bid shall lead to
		DISQUALIFICATION.
		(h) Bidders who are bidding for this tender shall,
		1) Should have implemented at least three orders of Thermal Environmental Chamber(2019-20, 2020-2021,2021-22) 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.
		2) Have an Average Annual Turnover of Rs 35,00,000 (RUPEES
		THIRTY FIVE LAKHS) during each of the last THREE
		financial years (2019-20, 2020-2021,2021-22). 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. 3) Digitally signed Tender Document should be submitted in Cover
		3) Digitally signed Tender Document should be submitted in Cover One.
4	EARNEST MONEY DEPOSIT (EMD)	 (a) The bidder shall furnish EMD of Rs 18,000/- (Rupees EIGHTEEN Thousand Only) through online payment gateway in the E-Wizard. (b) Bids not accompanied by EMD shall be DISQUALIFIED.
5	PERFORMANCE	(a) The performance security shall be submitted within FIFTEEN DAYS of
	SECURITY	receipt of the material by the IITPKD. The successful bidder shall
		furnish the Performance Security equal to 3% of the order / contract
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		value (excluding the value of annual maintenance charges). The Performance Security shall be valid all along the warranty period and shall extend upto SIXTYDAYS 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. (b) The performance security shall be a bank guarantee (in the format as provided) issued by the Indian Scheduled bank acceptable to the IITPKD or a Demand Draft favoring, INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD payable at PALAKKAD. (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. (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.
6	BID PRICES AND CURRENCY	 (a) Prices must be quoted separately for each equipment/item identified. (b) Price quoted for equipment/items must include all costs associated with packing, transportation, insurance, delivery of equipment/items, taxes (separately), loading and unloading on DOOR DELIVERY basis to the institute including its installation, commissioning, integration and validation. (c) Prices quoted by the bidder shall be fixed during the validity of the bid. (d) Prices of the equipment/items shall be quoted in Indian Rupees (INR) only.
7	PERIOD OF VALIDITY OF BIDS	(a) Bids shall remain valid for a period of 180 DAYS after the date of the deadline for submission of bids prescribed by IITPKD.(b) If the deadline is extended due to unforeseen circumstances, the bid validity shall be deemed to have extended accordingly.
8	TIME FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF THE EQUIPMENTS/ITEMS	 (a) The Supplier shall supply the equipment/items within the period specified in the tender document i.e. within TWO MONTHS of signing the purchase order or within the period mutually agreed between IITPKD and supplier. All the equipment and accessories should be delivered at IIT Palakkad (Nila Campus), Kanjikode-Malampuzha Road, Pudusserry West, Kanjikode, Kerala 678623. (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. (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. (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.
9	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.
10	PENALTIES	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.
11	UP-TIME GUARANTEE/	(a) The Supplier should provide up-time guarantee of 95% [24 (hours) X 7 (days)
	DOWNTIME PENALTY	X 365 (days)] basis during the warranty period.
	CLAUSE	(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
10	LIQUID ATER	warranty period will be twice the excess down time period.
12	LIQUIDATED DAMAGES	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.
13	EFFECT OF FORCE MAJEURE	 (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 FIFTEEN DAYS after the occurrence of such event. (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. (c) No delay or non-performance by the Supplier caused by the occurrence of any event of Force Majeure shall: i. Constitute a default or breach of the Contract; ii. Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance. (d) If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than THIRTYDAYS or an aggregate period of more than SIXTY DAYS 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.
14	EXTENSION OF TIME	(a) The time limit for supply, installation & commissioning, integration &
1.7	LIMITS FOR SUPPLY	validation shall be extended if the supply is delayed or impeded in the
	AND MAKING	performance of any of its obligations under the Contract by reason of
	OPERATIONAL, THE	any of the following:
	EQUIPMENT	i. Any occurrence of Force Majeure;

		ii. Any other matter specifically mentioned in the Contract;
		(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.
15	GOVERNING LAW	(a) The Contract shall be governed by and interpreted in accordance with
	AND	the laws of India.
	SETTLEMENT	(b) Any dispute or claim arising out of/relating to this Contract of the
	OF DISPUTES	breach, termination or the invalidity thereof, shall be settled by the
		Hon'ble Courts of Justice at Palakkad.
		(c) 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
		Annexure-IV.
		(d) 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.

AWARD OF CONTRACT

1	AWARD CRITERIA	 IITPKD will award the Contract to the Bidder whose has been determined to be substantially responsive and per the Order No. P-45021/2/2017-PP(BE-II) dated 09-2020 from Department for Promotion of Industry and Internal Trade (Public Procurement Section Ministry of Commerce and Industry, Govt. of India. The Institute reserves the right to buy differ items/quantities from different bidders considering pricing individual/group of equipment/items or any other fac as decided by the Committee. The bidder should be
		Class-I / Class-II Local Supplier meeting the requirem of minimum 20% Local Content in line with the Pu Procurement (Preference to Make in India) Order 2017 P-45021/2/2017-PP(BE-II) dated 16-09-2020.
2	AWARD OF PURCHASE ORDER	1. Prior to the expiration of the period of bid valid IITPKD will issue the Letter of Intent / Purchase Orde
		 the successful Bidder in writing. Any amendment(s) in the Purchase Order will be permi within SEVEN DAYS of its issuance. No amendment will be permitted beyond this period.
		3. The Purchase Order will constitute the foundation of Contract.
3	CONTRACT AGREEMENT	Within SEVEN DAYS of receipt of the Purchase Or the successful Bidder shall sign and date its copy on e page and return it to the Purchaser.
		 Copy of Purchase Order duly signed and dated by successful Bidder on each page shall constitute Contract Agreement.
4	CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT	 All documents forming part of the Contract (and all p of these documents) are intended to be correlat complementary and mutually explanatory. The Cont shall be read as a whole.
		2. The order of precedence of the Contract documents s be as follows:(i) Contract Agreement/Purchase Order(ii) All Forms/Annexures
		(iii) equipment/items and their requirement(iv) Supplier's Bid(v) Tender Document
		 No amendment or other variation of the Contract shall effective unless it is in writing, is dated, expressly refer the Contract and is signed by a duly authori representative of each party to the Contract.

REGISTRAR

ANNEXURE-I

Technical Specifications for Thermal Environmental Chamber

QTY: 01

Product	Thermal Environmental Chamber (As per any of the equipment Standards:IEC-60068/DIN/ISO/MIL-STD or better)
Model and Weight	Vertical, Floor Model, weight less than 1000 kg (SS 304 grade body)
Chamber Interior and exterior	 <u>Interior</u>: 304 grade Stainless steel and joints should be leak proof to prevent air and water leakage. <u>Exterior</u>:Double layered powder coated finish;built in control panel on the exterior body, all hinges and door should be of stainless-steel finish
Test space volume	225 to 300 L or equivalent
Temperature range	Temperature test:- 20 °C to 200 °C (\pm 1°C) Climatic tests: 5°C to 85 °C (\pm 1°C). For Climatic tests, need to obtain step temperature change (of 1°C per hour or less) to approximate a sinusoidal kind of input temperature profile as shown in Fig.1 $ \sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt$
Relative Humidity (R.H) Range	Preferably 5% to 98% (± 2%)
Dew point temperature	Lower dew point temperature: 15 °C and higher dew point temperature: 60 °C
Type of Specimen to be tested	Mainly Soil/Clay Composite, Rock Composites
Storage and Memory	Microprocessor with Capacitive sensor to store 1000 records or more
Resolution	Temperature: 0.1°C or better and R.H.: 1% or better

Heater	SS tubular heaters for dry heater and Immersion type SS tubular heaters for wet type
Controller	Schneider based processor for digital PID temperature and humidity controller cum indicator. Graphical trend view of set values. Data storage for every 1 minute. Auto resume after power failure is also needed.
Humidity Unit	• Electric-Humidifier which generates steam and inject through a hole in the air flow after the air circulation fan for better performance. Streaming unit will be inside, the water line & controlling unit should be outside.
	Demineralized water for humidification and dehumidification through refrigerators coils
Temperature and Humidity unit	Electrical motors should be provided for forced air circulation with adjustable range of velocity to maintain uniform conditions inside the chamber and within permissible limits.
	Cross flow radial fan is preferred to spread air through the complete space of the chamber.
Graphical User Interface	With PC and printer through RS 485 with USB 3.0 port
Main Door	Full front opening door double walled and insulated interior lined with SS304 silicon gasket for leak proof, SS handle heavy duty hinges for door
Window	Toughened glass window with illumination lamp and window defogging facility to enable better viewing. Viewing window size 400mm *400 mm. High temperature double lined silicon gasket without any corner joints.
Tray	Adjustable type SS mesh trays of loading capacity up to 100 kg each
Drain	Proper condensate drain should be provided
Port hole	At Least 2 Nos. of silicon made portholes of diameter 50 mm for passing instrumentation cables with suitable packaging and silicon plugs should be provided each on the left and right wall of the test chamber space.
Earthing	Earthing point should be provided on the control and chamber with indicating sticker for the same
Compressor specification	Hermetically sealed with CFC free refrigerant
Refrigerant	CFC free; Eco Friendly (R-404a or equivalent)
Refrigeration system	 Air cooled refrigeration unit, suitable for continuous performance. 0-ODP Eco-Friendly refrigerants are to be used in a Refrigeration cycle Low Noise type Rotary Compressor Electronic expansion Valve Anti-corrosive components should be used

Noise level	• Less than 60 dB
Other features	 Data logging and saving result direct to PC Safety alarm, Emergency switch, Thermostat, control for humidity safety, High temperature protection Drain facility and suitable illumination of test space Wheels: Leveling castors with integrated truck lock, with bolt hole fitting (female thread), Nylon wheel
Power supply	415V, 3 phase,50 Hz (with power rating standards in India)
Safety Features	 Overcurrent protection for refrigerator, humidifier Short Circuit protection for air circulator, refrigerator. Control circuit overcurrent protection System error alarm Overheat protector Burnout detection circuit Phase prevention relay Water level indicator provided to know the water level in the reservoir Status Tower lamp Oil return device in refrigeration system to prevent oil flow in lines Emergency STOP Switch
Warranty and Support	Minimum 3 years of standard warranty should be included. The bidder may include AMC charges for TWO years over and above the standard warranty.

ANNEXURE-II

FORMAT FOR SELF-CERTIFICATION UNDER PREFERENCE TO MAKE IN INDIA (TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)

Format for Affidavit of Self-Certification regarding Minimum Local Content in line with "Make in India" Policy vide GoI Order no. P-45021/2/2017-PP (B.E.-II) dated 15.06.2017 (subsequently revised vide orders dated 28.05.2018, 29.05.2019 and 04.06.2020)

Date:
I/We S/o, D/o, W/o,
Resident of
Testachi of
Hereby solemnly affirm and declare as under:
That I will agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) Order, 2017
(hereinafter PPP-MII order) of Government of India issued vide Notification No:P-45021/2/2017 -BE-II dated 15/06/2017,
its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any and
That the local content for all inputs which constitute the said goods/services/works has been verified by me and I am
responsible for the correctness of the claims made therein.
Tick (✓) and Fill theAppropriate Category
[name of the manufacturer] hereby confirm in respect of quoted items(s) that
Local Content is equal to or more than 50% and come under "Class-I Local Supplier" category.
[name of the manufacturer] hereby confirm in respect of quoted items(s) that
Local Content is more than 20% but less than 50% and come under "Class-II Local Supplier" category.
I/We [name of the manufacturer] hereby confirm in respect of quoted items(s) that
Local Content is less than or equal to 20% come under "Non-Local Supplier" category.
For and on behalf of(Name of firm/entity)
Authorized signatory (To be duly authorized by the Board of Directors)
<insert and="" contact="" designation="" name,="" no.=""></insert>

[Note: In case of procurement for a value in excess of Rs. 10 Crores, the bidders shall provide this certificate from statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.]

ANNEXURE-III

<u>UNDERTAKING BY THE BIDDER</u> (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 here by accept that the PRICES OF THE EQUIPMENT/ITEMS QUOTED IS IN INDIAN RUPEES ONLY (INR). I am aware that if the price is not in INR, the application shall be summarily rejected. 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 dated _____. No. Note: This letter should be on the letterhead of the quoting firm and should be signed by a Competent Authority. ANNEXURE-IV 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 <u>letterhead of the quoting firm</u> and should be signed by a Competent Authority and having the power of attorney.