

# Tender No. TENDER/2022-23/028 Date of Publication: 05-07-2022 Date/Time of Closing: 25-07-2022, 1500 hours

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

# SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF SMD Soldering Bench [Reflow Oven & Stencil Printer]

Conforming to the specifications as in BoQ Technical.

Tender Documents may be downloaded from the e-Wizard Portal <u>https://mhrd.euniwizarde.com/</u>. Aspiring Bidders who have not enrolled / registered in e-Wizard should enroll / register before participating through the website <u>https://mhrd.euniwizarde.com/</u>. 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 <u>https://mhrd.euniwizarde.com/</u>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	05-07-2022
2	Last Date/Time for submission of ONLINE Bids	25-07-2022, 1500 hours
3	Opening of Technical Bids	25-07-2022, 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
1	GENERAL	(a)	
			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.
		(h)	
		(0)	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
		(g)	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	
		1. 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.	
		<ul><li>(b) Bids submitted in any mode other than ONLINE will be rejected outright.</li></ul>	
		(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 TWO ORDERS of SMD Soldering Bench[Reflow oven & Stencil Printer or allied items]	
		to Centrally Funded Technical Institutions (IIT, NIT, IISc, IISER etc)	
		during previous five financial years (2017-18, 2018-19, 2019-20,	
		2020-21, 2021-22). Copies of the most recent purchase orders and	
		certificates of successful implementation must be included. They must attach the order copies with the names/contact nos. and email	
		addresses of concerned researchers/persons.	
		2) Have an Average Annual Turnover of Rs 10,00,000 (RUPEES	
		TEN LAKH ONLY) during the last THREE financial years	
		(2018-19, 2019-20, 2020-21, 2021-22 (if available)). 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.	
		<ol> <li>Digitally signed Tender Document should be submitted in Cover One.</li> </ol>	
4	EARNEST MONEY	(a) The bidder shall furnish EMD of <b>Rs 8,000/- (Rupees Eight Thousand</b>	
	DEPOSIT (EMD)	Only) through online payment gateway in the E-Wizard.	
		(b) Bids not accompanied by EMD shall be DISQUALIFIED.	
L		(c) Dias not accompanies of Entry shall be DioQOTEIT IED.	

5	PERFORMANCE	(a) The performance security shall be submitted within <b>FIFTEEN DAYS</b> of
3	SECURITY	receipt of the material by the IITPKD. The successful bidder shall
	SECURITI	furnish the Performance Security equal to $3\%$ 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 upto <b>SIXTYDAYS</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.
		(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	(a) Prices must be quoted separately for each equipment/item identified.
	CURRENCY	(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	(a) Bids shall remain valid for a period of <b>180 DAYS</b> after the date of the
	OF BIDS	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,	(a) The Supplier shall supply the equipment/items within the period
	INSTALLATION,	specified in the tender document i.e. within THREE MONTHS of
	COMMISSIONING AND	signing the purchase order or within the period mutually agreed between
	VALIDATION OF THE	IITPKD and supplier. All the equipment and accessories should be
	EQUIPMENTS/ITEMS	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
1		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		
10		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)		
11	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		
		warranty period will be twice the excess down time period.		
12	LIQUIDATED	If a firm accepts an order and fails to execute the order, in full or part, as per		
	DAMAGES	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	(a) If the Supplier is prevented, hindered, or delayed from or in performing		
15	MAJEURE	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</b>		
		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 <b>THIRTYDAYS</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.
14	EXTENSION OF TIME	(a) The time limit for supply, installation & commissioning, integration &
	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.
		regard will be entertained.

# AWARD OF CONTRACT

WARD CRITERIA	1. 2.	IITPKD will award the Contract to the Bidder whose bid has been determined to be substantially responsive and <b>as</b> <b>per the Order No. P-45021/2/2017-PP(BE-II) dated 16- 09-2020 from Department for Promotion of Industry and Internal Trade (Public Procurement Section), Ministry of Commerce and Industry, Govt. of India.</b> 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. The bidder should be a Class-I / Class-II Local Supplier meeting the requirement of minimum 20% Local Content in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP(BE-II) dated 16-09-2020.
WARD OF PURCHASE ORDER	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.
	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.
	3.	The Purchase Order will constitute the foundation of the
	1	Contract.
UNTRACT AGREEMENT	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.
	2	Copy of Purchase Order duly signed and dated by the
	۷.	successful Bidder on each page shall constitute the
		Contract Agreement.
ONTRACT DOCUMENTS /	1.	All documents forming part of the Contract (and all parts
MENDMENT TO CONTRACT		of these documents) are intended to be correlative,
		complementary and mutually explanatory. The Contract
		shall be read as a whole.
	2.	The order of precedence of the Contract documents shall
		be as follows:
		<ul><li>a) Contract Agreement/Purchase Order</li><li>b) All Forms/Annexures</li></ul>
		<ul><li>b) All Forms/Annexures</li><li>c) Equipment/items and their requirement</li></ul>
		d) Supplier's Bid
		e) Tender Document
		-,
	3.	No amendment or other variation of the Contract shall be
	3.	No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to
	3.	
	WARD OF PURCHASE ORDER	WARD OF PURCHASE ORDER       1.         2.       3.         ONTRACT AGREEMENT       1.         2.       2.         ONTRACT DOCUMENTS       1.         ONTRACT DOCUMENTS       1.

# REGISTRAR

# ANNEXURE–I Technical Specifications

S. No.	Items	IIT PKD required Specification	Detailed specifications of the quoted items by the bidder along with the model number
	Program	nmable Reflow Oven	
1	Mode Of Heating	Convectional (Hot Air Only)	
2	Heating Material	Nichrome Wire with Aluminum Alloy	
3	Smoke Filter	Built in Soldering Smoke filter	
4	Display And Control	Color touch Screen	
5	Temperature Sensor	Real time inspection with inbuilt temperature sensor	
		Could be easily designed/uploaded using PC	
		Screen should display temperature on a time	
6	Temperature Profile	base	
7	Temperature	0 - 300° (Min) / Programmably controlled	
8	Temperature Accuracy	±0.5°C	
9	Time required to heat up	Less than 20 Min	
10	Max power	1.6 KW or higher	
11	Supply Voltage	Single phase /220 V	
12	Heating Chamber	Uniformly heated and with aluminum alloy material	
13	Heating Chamber width	250 mm or above	
14	Heating Chamber length	650 mm or above	
		Six zones with three above conveyor and	
		three below the conveyor below. Of these at	
		least two must be Pre Heating zones and at	
15	Zone	least one must be a Reflow zone.	
16	Conveyor Belt	Stainless steel spring wire	
		Slow Speed - less than or equal to 15 cm/min	
		High Speed - Greater than or equal to 60	
17	Conveyor Speed	cm/min	
		Cooling system should be there at offloading	
18	Cooling System	section	
19	Net Weight	45 -70 Kg max	
		ISO 12100:2010	
20	Certification	EN 60204-1 :2006	

]	HIGH PRECISION MAN		
		PRINTER	
		Manual Solder Printer for Frame less	
1	Туре	Stencils	
2	Max PCB Size	280mm x389mm (Or Greater)	
3	Min PCB Size	10mm x 5mm	
4	Screen Stencil Size	260mm x 360mm	
	PCB Thickness can be		
5	used	0mm - 20mm (Or Greater)	
6	Platform Height	190mm	
7	Repeatability	± 0.01mm (Min)	
8	Rotation on Angle	$\pm 15^{\circ}$ or greater	
		Z-axis ± 15mm (Or Greater)	
		X-axis $\pm$ 15mm (Or Greater)	
9	Fine Adjustment Range	Y-axis ± 15mm (Or Greater)	
10	Poisoning Pin Size (Dia)	1mm / 1.5mm / 2.0mm / 2.5mm / 3.0mm	
		700 mm or less - Width	
11	Dimensions of machine	500 mm or less - Length	
W	ARRANTY (IN YEARS	S) Scope of Warranty may be enclosed in	1
		1 years	
C	omprehensive AMC (I	must be comprehensive including parts	
	cost, s	service cost, visit cost and any other cost)	
			1 Years

### 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

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 (✓	Tick (✓) and Fill theAppropriate Category		
	I/We [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.		
	I/We [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 Name, Designation and Contact No.>

[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 No.\_\_\_\_\_ dated \_\_\_\_\_.

#### Note:

This letter should be on the <u>letterhead of the quoting firm</u> and should be signed by a Competent Authority.

#### ANNEXURE-IV

# <u>FALL CLAUSE NOTICE CERTIFICATE</u> (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.