

Indian Institute of Technology Palakkad भारतीय प्रौद्योगिकी संस्थान पालक्काड

STORES & PURCHASE SECTION

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Tender No. TENDER/2024-25/PRJ_033
Date of Publication: 17-02-2025

Date/Time of Closing: 12-03-2025, 15:00 hours

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

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF DATA ACQUISITION SYSTEM FOR WIRE EDM

Conforming to the specifications as in BoQ Technical.

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

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

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

S. No.	Events	Date and Time
1.	Publication of the Tender Document	17-02-2025
2.	Date of Pre-Bid Meeting	28-02-2025, 11:00 hours
3.	Last Date/Time for submission of ONLINE Bids	12-03-2025, 15:00 hours
4.	Opening of Technical Bids	12-03-2025, 15:15 hours

Pre-Bid Meeting:

- 1. Online Pre-Bid meeting will be held on 28-02-2025, 11:00 hours to clear the doubts of intending bidders. The details of the meeting will be intimated through the ONLINE Portal. Bidders, who are unable to attend the Pre-Bid meeting, may send their queries for the same, latest by 27-02-2025, 15:00 hours to purchase@iitpkd.ac.in
- 2. Queries received after the Pre-Bid Meeting shall not be considered. Addendum/ Corrigendum/ Clarifications to the queries will be uploaded, paused the Pre-Bid meeting in the online portal, which shall be part of the tender document.

Note:

- 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	CENEDAL	(-) The
	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 offering 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 is 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, which is expressly stated to be an addendum to the tender document issued by the Registrar, IIT Palakkad, no written or oral communication,
		(h) The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Tender Document.
	COMPOSITION OF THE	(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) Undertaking by the Bidder (Annexure II)
		2. Undertaking by the Bidder (Annexure-II) 3. Fall Clause Notice Certificate (Annexure-III)
		3. Fall Clause Notice Certificate (Annexure-III) Annexure regarding Blacklisting/Debarment (Annexure IV)
		 Annexure regarding Blacklisting/Debarment (Annexure-IV) Self Declaration – MII Order (Annexure-V)
		J. Self Deciaration - Will Order (Amilexule-V)

3	DOCUMENTS	(a) The Technical and Techno-commercial (Cover One) and
	COMPRISING THE BID	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,
		1) Should have implemented at least THREE ORDERS of DATA ACQUISITION SYSTEM FOR WIRE EDM during the previous
		THREE financial years (2021-22, 2022-23, 2023-24) 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) Should have an Average Annual Turnover of Rs 45,00,000/-
		(RUPEES FORTY-FIVE LAKHS ONLY) during the last
		THREE financial years (2021-22, 2022-23, 2023-24). 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.
4	EARNEST MONEY	3) Should submit Digitally signed Tender Document in Cover One. (a) The bidder shall furnish EMD of Rs. 40,000 /- (Rupees Forty)
•	DEPOSIT (EMD)	Thousand Only) through online payment gateway in the E-Wizard.
	DEI OMI (EMD)	(b) Bids not accompanied by EMD shall be DISQUALIFIED.
		(c) The firms who are registered with National Small Industries Corporation
		(NSIC) / or Small Scale Industrial (SSI)/ Micro & Small Enterprises
		(MSEs) are exempted from submitting the EMD. NSIC / MSME
		registered bidders must submit a copy of a valid NSIC / MSME
		Registration Certificate for exemption of EMD. It will be applicable for
		those bidders who shall produce their own goods or provide their own
		services, and not applicable for trading purposes.
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 5% 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 SIXTY DAYS after the date of completion of warranty
	<u> </u>	shall extend upto SIXIY DAYS after the date of completion of warranty

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		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/ E-Bank Guarantee (Digital Document Execution – DDE MODE by National E-Governance Service Limited) (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.
	DID DDICES AND	
6	BID PRICES AND	(a) Prices must be quoted separately for each equipment/item identified.
	CURRENCY	(b) Price quoted for equipment/items shall include all the costs
		associated with packing, local transportation from the point of clearance to IITPKD, insurance, loading, unloading and associated
		delivery charges. The delivery shall be on DOOR DELIVERY basis
		to the institute including its installation, commissioning, integration
		and validation. It is the sole responsibility of the supplier to ensure
		that the equipment is delivered on DDP mode to IIT Palakkad. An
		undertaking to this effect as in Annexure-II.
		(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).
7	LETTER OF CREDIT	(a) Upon the successful Bidder's furnishing of the copy of the Purchase
		Order duly signed on each page and the Performance Security, for the
		equipment ordered in foreign currency, IITPKD will open a letter of credit
		(LC) in a convenient Nationalized Bank in India. For opening of LC
		necessary information shall be provided by the supplier or its authorized
		agents.
		(b) In case the successful bidder is a foreign company and wishes to submit
		Performance Security in the form of Bank Guarantee, the Bank Guarantee
		should be routed through the Beneficiary Bank to the end user bank.
		Otherwise, the Indian Agent of the foreign vendor shall submit a Bank
		Guarantee from a Nationalized Bank of India. The following documents shall
		be submitted in case of an Indian agent submitting the Performance Security
		on behalf of his principal:
		• Foreign principal's proforma invoice indicating the commission
		payable to the Indian agent and nature of after-sales service to be rendered by the Indian agent.
		 Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
		(c) For imported equipment, a Letter of Credit (LC) shall be opened for
		100% CIP price on receipt of the acknowledgment of the purchase order.
		However, 80% of the LC amount only shall be released on proof of the

		shipment of the consignment with necessary documents to be provided in
		detail at the time of placing of the purchase order. Balance 20% of the LC
		amount shall be released upon the receipt of a performance security of 5% of
		the total value of the purchase order and installation, commissioning,
		integration, validation and installation report/certification jointly given by the
		end user and the supplier.
		Any costs associated with the amendments made in the LC as per the
		request made by the Supplier s should be borne by the supplier.
		Any fluctuation in rates / rate conversions arising due to the amendment
		requests made by the supplier shall be on the supplier and not on the
		institute.
8	PERIOD OF VALIDITY	(d) Bids shall remain valid for a period of 180 DAYS after the date of the
	OF BIDS	deadline for submission of bids prescribed by IITPKD.
		(e) If the deadline is extended due to unforeseen circumstances, the bid
		validity shall be deemed to have extended accordingly.
9	TIME FOR SUPPLY,	(a) The Supplier shall supply the equipment/items within the period
_	INSTALLATION,	specified in the tender document i.e. within 06 to 08 WEEKS of signing
	COMMISSIONING AND	the purchase order or within the period mutually agreed between IITPKD
	VALIDATION OF THE	and supplier. All the equipment and accessories should be delivered at,
	EQUIPMENTS/ITEMS	IIT PALAKKAD, DESIGN AND MANUFACTURING
	EQUIFMENTS/TTEMS	
		PUDUSSERY, PALAKKAD 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.
10	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.
11	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.
12	UP-TIME GUARANTEE/	(a) The Supplier should provide up-time guarantee of 95% [24 (hours) X 7 (days)
12	DOWNTIME PENALTY	X 365 (days)] basis during the warranty period.
	CLAUSE FENALTI	(b) The Supplier should provide up-time guarantee of 95% (24 hours/day basis)
	CLAUSE	
		both during warranty. If downtime exceeds the 5% limit, extension of the
1.0	I IOIIID ATTEN	warranty period will be twice the excess down time period.
13	LIQUIDATED	If a firm accepts an order and fails to execute the order, in full or part, as per the
	DAMAGES	terms and conditions stipulated therein, it will be open to the Institute to recover
		liquidated damages from the firm at the rate of 1% of the value of the undelivered
		goods per month or part thereof, subject to a maximum of 5% of the value of the
		

		undelivered goods. It will also be open to the Institute alternatively, to arrange procurement of the required stores from any source, at the risk and expense of the firm, accepted and failed to execute the order according to stipulations agreed upon. This will also entail the removal of the defaulters' name from the
		approved/registered list of Suppliers.
14	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;
		 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 THIRTY DAYS 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
15	EXTENSION OF TIME	by giving a notice to the Supplier. (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 any
	OPERATIONAL, THE	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.
16	GOVERNING LAW AND	(a) The Contract shall be governed by and interpreted in accordance with the laws of India.
	SETTLEMENT OF DISPUTES	(b) Any dispute or claim arising out of/relating to this Contract of the 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-II.
		(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	1.	IITPKD will award the Contract to the Bidder whose bid
	THE CHILDREN	1.	has been determined to be substantially responsive and as 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),
		2.	Ministry of Commerce and Industry, Govt. of India. 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
		3.	16-09-2020. 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.
		4.	The Institute reserves the right to accept or reject any quotations without assigning any reason thereof.
2	AWARD OF PURCHASE ORDER	1.	Prior to the expiration of the period of bid validity, IITPKD will issue the Letter of Intent / Purchase Order to
		2.	the successful Bidder in writing. Any amendment(s) in the Purchase Order will be permitted
			within SEVEN DAYS of its issuance. No amendments will be permitted beyond this period.
		3.	The Purchase Order will constitute the foundation of the Contract.
3	CONTRACT AGREEMENT	1.	Within SEVEN DAYS of receipt of the Purchase Order, the successful Bidder shall sign and date its copy on each
		2.	page and return it to the Purchaser. Copy of Purchase Order duly signed and dated by the successful Bidder on each page shall constitute the
			Contract Agreement.
4	CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT	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
		2.	shall be read as a whole. The order of precedence of the Contract documents shall
		2.	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
		3.	No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to
			the Contract and is signed by a duly authorized representative of each party to the Contract.

REGISTRAR

TECHNICAL SPECIFICATIONS

Name of the Item	DATA ACQUISITION SYSTEM FOR WIRE EDM
Quantity	01
Warranty Period	3 YEARS

1 DAQ System Architecture for voltage, current (with future upgradeability to temperature, strain acceleration, etc.) 2 Channels Minimum of 8 analog input channels, with future upgradeability. 3 Real-time Acquisition Supports real-time data acquisition for continuous monitoring in high-speed environments like Wire EDM. 4 Sample Rate Minimum 200 MS/s for high-speed acquisition. 5 Bandwidth At least 40 MHz or better 6 Resolution Minimum 14-bit ADC resolution 7 Memory and Storage Memory Length: Minimum 1 Gpts; Storage Capacity: At least 500 GB onboard SSD storage. 8 Voltage Probe 250 V measuring range, 50 MHz bandwidth, with adjustable attenuation ratios. 9 Current Probe 15 Amperes measuring range, >= 50 MHz bandwidth, with adjustable attenuation ratios. 10 Data Analysis and Software uploads. Integration with python (if not "no data locking") 11 Trigger Modes Supports edge, pulse width, event-based triggers 12 Signal Filtering Onboard filtering options (low-pass, high-pass, band-pass), with a minimum of 10 different filters. 13 Connectivity and Communication Minimum 1 Gpbs Ethernet transfer or Thunderbolt transfer port support DC measurements 15 Time axis setting range Minimum 100 ns/div to Maximum 5 day/div (1 day steps) 16 Time axis accuracy (+/-) 4 - 5 ppm 17 Voltage Probe's Attenuation Ratio Minimum (0.1A:1V) to Maximum (50k:1V) 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50k:1v) 19 Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed	Sl no	Category	Specification required
3 Real-time Acquisition 4 Sample Rate 5 Bandwidth 6 Resolution 7 Memory and Storage 8 Voltage Probe 15 Amperes measuring range, 50 MHz bandwidth, with adjustable attenuation ratios. 16 Data Analysis and Software 17 Trigger Modes 18 Signal Filtering 19 Connectivity and Communication 10 Power 11 Time axis setting range 12 Signal Filtering 13 Connectivity and Communication 14 Power 15 Time axis setting range 16 Time axis accuracy 17 Voltage Probe Batio 18 Minimum 10 ns/div to Maximum (50 k: 1) 19 Multi sample rate Supports real-time data acquisition for continuous monitoring in high-speed environments like Wire EDM. Minimum 200 MS/s for high-speed acquisition. At least 40 MHz or better Minimum 1 Gpts; Storage Capacity: At least 500 GB onboard SSD storage. 250 V measuring range, 50 MHz bandwidth, with adjustable attenuation ratios. Real-time data transfer to PC for live monitoring, without manual uploads. Integration with python (if not "no data locking") 10 Data Analysis and Software 11 Trigger Modes 12 Signal Filtering 13 Connectivity and Communication 14 Power 15 Time axis setting range 16 Time axis accuracy 17 Voltage Probe's Attenuation Ratio 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50 k: 1) Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed Operate selected actions based on the determination criteria to the	1	DAQ System Architecture	
Sample Rate Minimum 200 MS/s for high-speed acquisition.	2	Channels	Minimum of 8 analog input channels, with future upgradeability.
5 Bandwidth At least 40 MHz or better 6 Resolution Minimum 14-bit ADC resolution 7 Memory and Storage Memory Length: Minimum 1 Gpts; Storage Capacity: At least 500 GB onboard SSD storage. 8 Voltage Probe 250 V measuring range, 50 MHz bandwidth, with adjustable attenuation ratios. 9 Current Probe 15 Amperes measuring range, >= 50 MHz bandwidth, with adjustable attenuation ratios. 10 Data Analysis and Software uploads. Integration with python (if not "no data locking") 11 Trigger Modes Supports edge, pulse width, event-based triggers 12 Signal Filtering Onboard filtering options (low-pass, high-pass, band-pass), with a minimum of 10 different filters. 13 Connectivity and Communication port DC measurements 14 Power DC measurements 15 Time axis setting range Minimum 100 ns/div to Maximum 5 day/div (1 day steps) 16 Time axis accuracy (+/-) 4 - 5 ppm 17 Voltage Probe's Attenuation Ratio Minimum (0.1A:1V) to Maximum (50 k: 1) 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50kA:1V) 19 Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed	3	Real-time Acquisition	
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Storage Capacity: At least 500 GB onboard SSD storage.	6	Resolution	Minimum 14-bit ADC resolution
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ware uploads. Integration with python (if not "no data locking") 11 Trigger Modes Supports edge, pulse width, event-based triggers 12 Signal Filtering Onboard filtering options (low-pass, high-pass, band-pass), with a minimum of 10 different filters. 13 Connectivity and Communication Minimum 1 Gbps Ethernet transfer or Thunderbolt transfer port support 14 Power DC measurements 15 Time axis setting range Minimum 100 ns/div to Maximum 5 day/div (1 day steps) 16 Time axis accuracy (+/-) 4 - 5 ppm 17 Voltage Probe's Attenuation Ratio Minimum (1: 1) to Maximum (50 k: 1) 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50kA:1V) 19 Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed 20 GO/NO-GO determina-Operate selected actions based on the determination criteria to the	9	Current Probe	15 Amperes measuring range, >= 50 MHz bandwidth, with adjustable attenuation ratios.
12 Signal Filtering Onboard filtering options (low-pass, high-pass, band-pass), with a minimum of 10 different filters. 13 Connectivity and Communication Minimum 1 Gbps Ethernet transfer or Thunderbolt transfer port support 14 Power DC measurements 15 Time axis setting range Minimum 100 ns/div to Maximum 5 day/div (1 day steps) 16 Time axis accuracy (+/-) 4 - 5 ppm 17 Voltage Probe's Attenuation Ratio Minimum (1: 1) to Maximum (50 k: 1) 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50kA:1V) 19 Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed 20 GO/NO-GO determina- Operate selected actions based on the determination criteria to the	10		
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munication port 14 Power DC measurements 15 Time axis setting range Minimum 100 ns/div to Maximum 5 day/div (1 day steps) 16 Time axis accuracy (+/-) 4 - 5 ppm 17 Voltage Probe's Attenuation Ratio Minimum (1: 1) to Maximum (50 k: 1) 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50kA:1V) 19 Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed 20 GO/NO-GO determina- Operate selected actions based on the determination criteria to the	12	Signal Filtering	
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17 Voltage Probe's Attenua- tion Ratio Minimum (1: 1) to Maximum (50 k: 1) 18 Current Probe Ratio Minimum (0.1A:1V) to Maximum (50kA:1V) 19 Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed 20 GO/NO-GO determina- Operate selected actions based on the determination criteria to the	15	Time axis setting range	Minimum 100 ns/div to Maximum 5 day/div (1 day steps)
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Multi sample rate Mainframe should support modules of different sample rates to enhance memory occupied and transfer speed Operate selected actions based on the determination criteria to the	17		Minimum (1: 1) to Maximum (50 k: 1)
hance memory occupied and transfer speed Operate selected actions based on the determination criteria to the	18	Current Probe Ratio	Minimum (0.1A:1V) to Maximum (50kA:1V)
/	19	Multi sample rate	
Captured waveform.	20	GO/NO-GO determination	Operate selected actions based on the determination criteria to the captured waveform.
Dual Capture Mode Performs data acquisition on the same waveform at 2 different sample rates.	21	Dual Capture Mode	*
22 Standard warranty Minimum 3 years	22	Standard warranty	Minimum 3 years

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

DOCUMENT.
We hereby undertake that there are pages, serially numbered, in the submitted tender including the supporting documents. (Please serially number all the pages including blank page, if any).
We have submitted our principal's exclusive authorization letter which is specific for this tender No dated
Note: This letter should be on the <u>letterhead of the quoting firm</u> and should be signed by a Competent
Authority. ANNEXURE-III
FALL CLAUSE NOTICE CERTIFICATE (TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)
This is to certify that we have offered the maximum possible discount to you in our Quotation No dated (Please do not reveal the prices here, which will lead to outright rejection of your bid).
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.
ANNEXURE-IV
UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT Tender No
To, M/s. Indian Institute of Technology Palakkad Kanjikode Palakkad Kerala 678623
We hereby confirm and declare that we, M/s are not blacklisted/ De-registered / debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Executed/ Undertaken the works/ Services.
For Company Name and Seal Authorised Signatory
Note: This letter should be on the <u>letterhead of the quoting firm</u> and should be signed by a Competent Authority.

ANNEXURE-V

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	t of
Hereby s	solemnly affirm and declare as under:
Order, 2	rill agree to abide by the terms and conditions of the Public Procurement (Preference to Make in India) 017 (hereinafter PPP-MII order) of Government of India issued vide Notification No:P-45021/2/2017 - ated 15/06/2017, its revision dated 28/05/2018 and any subsequent modifications/Amendments, if any
	local content for all inputs which constitute the said goods/services/works has been verified by me and ponsible for the correctness of the claims made therein.
Tick (✓	() and Fill the Appropriate 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)
	zed signatory (To be duly authorized by the Board of Directors) Name, Designation and Contact No.>
[Note: In	n 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.]