

Indian Institute of Technology Palakkad भारतीयप्रौद्योगिकीसंस्थानपालक्काड

STORES & PURCHASE SECTION

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GeM ARPTS No. GEM/GARPTS/07012022/3TU8O1UU88XJdated07-01-2022

Tender No. IITPKD/PRJ/SKM/2020-21/036 Date of Publication: 02-02-2022 Date/Time of Closing: 22-02-2022, 1500 hours

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

SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF Under Water Manipulator

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	02-02-2022
2	Last Date/Time for submission of ONLINE Bids	22-02-2022, 1500 hours
3	Opening of Technical Bids	20-02-2022, 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
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2	COMPOSITION OF THE	(a) The Tender Document comprises of:
1	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. Bid Security Declaration Form (Annexure-III)
		4. Undertaking by the Bidder (Annexure-IV)
		5. Fall Clause Notice Certificate (Annexure-V)
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 Under Water
		Manipulator(2018-19, 2019-20, 2020-2021) 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 60,00,000 (RUPEES
		SIXTYLAKHS) during each of the last THREE financial years
		(2018-19, 2019-20, 2020-2021). 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.
		1) Digitally signed Tender Document should be submitted in Cover
4		One.
4	EARNEST MONEY DEPOSIT (EMD)	(a) The bidder shall furnish, as part of the technical bid, Bid Security
		Declaration Form as per the Annexure-II.(b) Bids not accompanied by Bid Security Declaration Form shall be
		DISQUALIFIED.

5	PERFORMANCE	(a) The performance security shall be submitted within FIFTEEN DAYS of
5	SECURITY	(a) The performance security shall be submitted within FIFTEEN DAYS of receipt of the material by the IITPKD. The successful bidder shall
	SLECKIT	· ·
		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 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
	DID DDICES AND	bids.
6	BID PRICES AND	(a) Prices must be quoted separately for each equipment/item identified.(b) Price guoted for equipment/items must include all costs accepted with
	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 180 DAYS 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 THREEMONTHS 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
		bidder within 20 to 25 days from the date of its receipt.
1		(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
1		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
Í		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
		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 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
14	EVTENSION OF TRUE	the Contract by giving a notice to the Supplier.
14	EXTENSION OF TIME	(a) The time limit for supply, installation & commissioning, integration & validation shall be extended if the supply is delayed or impeded in the
1	LIMITS FOR SUPPLY	validation shall be extended if the supply is delayed or impeded in the

	AND MAKING OPERATIONAL, THE EQUIPMENT	 performance of any of its obligations under the Contract by reason of any of the following: Any occurrence of Force Majeure; 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 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-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

		4	
1	AWARD CRITERIA	1. 2.	IITPKD will award the Contract to the Bidder whose bid 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), Ministry of Commerce and Industry, Govt. of India. 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.
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
			the successful Bidder in writing.
		2.	Any amendment(s) in the Purchase Order will be permitted
			within SEVEN DAYS of its issuance. No amendments
		2	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,
5	CONTRACT AGREEMENT	1.	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
			successful Bidder on each page shall constitute the
			Contract Agreement.
4	CONTRACT DOCUMENTS /	1.	All documents forming part of the Contract (and all parts
	AMENDMENT TO CONTRACT		of these documents) are intended to be correlative,
			complementary, and mutually explanatory. The Contract
		2	shall be read as a whole.
		2.	The order of precedence of the Contract documents shall 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

ANNEXURE-I

Technical Specifications

Detailed Configuration/Specifications

S. No	Item	Description	Warranty
1.	Underwater manipulator (2 revolute joints with one inline end- effector rotation)	Electrical Operating Voltage: 18-30V Wattage: 35W Max Communication: Full Duplex RS232 or Half Duplex RS485 (Baud:115200 bits/s) Pressure rated for underwater operation with a minimum depth of 100 m Link diameter: 40mm (maximum) Link external material: Hard anodized Aluminium alloy 6061 Payload capacity: > = 2kg (Full Reach) Weight in Air: < 1.5kg Weight in Water: < 1kg Joint motion accuracy: 0.1° Joint rotation: minimum 200° Joint rotation rate: minimum 30°/s Joint torque >= 10Nm End effector: Standard jaw (interchangeable) End effector closing force >= 600N (adjustable grab force mandatory) Manipulator full reach: 0.4 m Compatible underwater rated connectors and cables	1 year
		Operator control option:	
		• Software GUI for the master control from the computer	
		• User Programmable Customizations to enable the ability to control the manipulator in Cartesian space (Task-space control).	
		• Communication capability to read and write data using custom algorithms from the user.	
		• Documentation to setup and control the complete manipulator system with an underwater vehicle. This includes the manipulator physical and control characteristics/parameters for simulation and improving the existing model-based control.	
		• Support the manipulator integration to the underwater vehicle.	

1. Technical Details

The scope of work includes:

• Procurement and supply of the underwater manipulator

The proposed manipulator arm will have at least 2 DOF in order to provide dexterity and redundancy. The proposed system consists of two rotary joints followed as an articulated robot. The conceptual design of the vehicle manipulator system is presented in Fig. 1. The manipulator system will also be sealed, and depth rated as mentioned in the above table. The manipulator system would be integrated to the vehicle and shallwork in tandem with the underwater vehicle for underwater tasks. The supplier shall support the manipulator integration to the underwater vehicle.

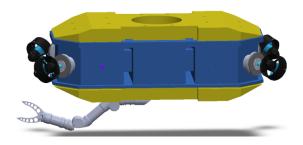


Fig. 1. Conceptual design of the proposed vehicle manipulator system

2. Warranty

The item should be warranted for 12 months from the date of supply and acceptance of materials by IIT Palakkad.

3. Delivery Schedule

The total interfaced system along with all other accessories should be supplied within 12 weeks from the date of purchase order.

4. Inspection and certification

All the components shall conform to the specifications and the functionality should be tested at the supplier's site before supply in the presence of IIT Palakkad representative.

•	ONE YEAR for the equipment from the date of commissioning/installation of the equipment.
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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 Gol 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 (✓) 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

BID SECURITY DECLARATION FORM (TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)

Date:____

Tender No.

To (insert complete name and address of the purchase)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) Have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) Having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed:	(insert signature of person whose name and capacity are shown)
in the capacity of	(insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

Note:

This letter should be on the <u>letterhead of the quoting firm</u> and should be signed by a Competent Authority. Non-submission of this will lead to DISQUALIFICATION of bids.

ANNEXURE-IV

<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-V

<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.