

### Indian Institute of Technology Palakkad

भारतीय प्रौद्योगिकी संस्थान पालक्काड

#### STORES & PURCHASE SECTION

Email: purchase@iitpkd.ac.in Telephone: 0491 209 2062 GSTIN: 32AAAAI9910J1ZR

Tender No. TENDER/2025-26/181 Date of Publication: 31-10-2025 Date/Time of Closing: 24-11-2025, 15:00 hours

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

#### SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF GROUND PENETRATING RADAR AND GNSS

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 <a href="https://mhrd.ewizard.in/">https://mhrd.ewizard.in/</a> 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.	<b>Publication of the Tender Document</b>	31-10-2025
2.	Date of Prebid meeting	11-11-2025, 11.00AM
3.	Last Date/Time for submission of ONLINE Bids	24-11-2025, 15:00 hours
4.	Opening of Technical Bids	24-11-2025, 15:15 hours

#### **Pre-Bid Meeting:**

- Online Pre-Bid meeting will be held on 11-11-2025 at 11:00 AM to clear the doubts of intending bidders. The details of the meeting will be intimated through ONLINE Portal. Bidders, who are unable to attend the Pre-Bid meeting, may send their queries for the same, latest by 12-11-2025, 12:00 hours to purchase@iitpkd.ac.in.
- 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 the part of the tender document.

#### 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.
- 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 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 approximate of his hid and HTDVD shall in passess be represented as
		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.
		(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. Undertaking by the Bidder (Annexure-II)
		3. Fall Clause Notice Certificate (Annexure-III)  Annexure regarding Placklisting / Dehorment (Annexure IV)
		<ol> <li>Annexure regarding Blacklisting/ Debarment (Annexure-IV)</li> <li>Self Declaration – MII Order (Annexure-V)</li> </ol>
		5. Son Decidiation 1911 Order (TimeAute-1)

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/hidder such as photogenies of the
		(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 ONE ORDER of GROUND
		PENETRATING RADAR AND GNSS during the previous ONE
		financial year (2024-25) 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 70,00,000/-
		(RUPEES SEVENTY LAKHS ONLY) during the last ONE
		financial year (2024-25). 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) Should submit Digitally signed Tender Document in Cover One.
4	EARNEST MONEY	(a) The bidder shall furnish EMD of Rs. 70,000 /- (Rupees Seventy
	DEPOSIT (EMD)	Thousand Only) through online payment gateway in the E-Wizard.
		(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 <b>FIFTEEN DAYS</b> 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

		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.
6	BID PRICES AND CURRENCY	<ul> <li>(a) Prices must be quoted separately for each equipment/item identified.</li> <li>(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.</li> <li>(c) Prices quoted by the bidder shall be fixed during the validity of the bid.</li> <li>(d) Prices of the equipment/items shall be quoted in Indian Rupees (INR).</li> </ul>
7	LETTER OF CREDIT	<ul> <li>(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.</li> <li>(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: <ul> <li>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.</li> <li>Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.</li> <li>(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</li> </ul> </li> </ul>

		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	
0	DEDIOD OF WALIDIES	institute.	
8	PERIOD OF VALIDITY	(d) 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.	
		(e) If the deadline is extended due to unforeseen circumstances, the bid	
	TIME FOR CURRIN	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 4 WEEKS of signing the	
	COMMISSIONING AND	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, B03 BLOCK, SAHYADRI CAMPUS,	
		KANJIKODE, PUDUSSERY, PALAKKAD, 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	
10	BRODUCE URCD A DEC	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	
11	DENALTIES	supplied.  If the Symplica fails to complete any of the activities in accordance with the time	
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	
12	IID DIME CHAPANDES!	Damages Clause shall be invoked.	
12	UP-TIME GUARANTEE/		
	DOWNTIME PENALTY	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	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	LIOUIDATED	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 t	
1		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	
	PERFORM OF FORCE	approved/registered list of Suppliers.	
14	EFFECT OF FORCE	(a) If the Supplier is prevented, hindered, or delayed from or in performing	
	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	
		<b>DAYS</b> 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>THIRTY DAYS</b> 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.	
15	EXTENSION OF TIME		
15			
	LIMITS FOR SUPPLY	validation shall be extended if the supply is delayed or impeded in the	
	AND MAKING		
	OPERATIONAL, THE	S	
	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.	

#### **AWARD OF CONTRACT**

1. IITPKD will award the Contract to the Bidder who has been determined to be substantially responsive per the Order No. P-45021/2/2017-PP(BE-II) dat 09-2020 from Department for Promotion of In and Internal Trade (Public Procurement See Ministry of Commerce and Industry, Govt. of Internal Trade (Public Procurement See Ministry of Commerce and Industry, Govt. of International Commerce and	1.:J
per the Order No. P-45021/2/2017-PP(BE-II) dat 09-2020 from Department for Promotion of In and Internal Trade (Public Procurement Se Ministry of Commerce and Industry, Govt. of Int 2. The bidder should be a Class-I / Class-II Local S meeting the requirement of minimum 20% Local C in line with the Public Procurement (Preference to M India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020. 3. The Institute reserves the right to buy di items/quantities from different bidders considering p individual/group of equipment/items or any other as decided by the Committee. 4. The Institute reserves the right to accept or reje quotations without assigning any reason thereof. 1. Prior to the expiration of the period of bid of HITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing. 2. Any amendment(s) in the Purchase Order will be per within SEVEN DAYS of its issuance. No amen will be permitted beyond this period. 3. The Purchase Order will constitute the foundation Contract. 1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy o page and return it to the Purchaser. 2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitut Contract Agreement. 3. AMENDMENT TO CONTRACT 4. AMENDMENT TO CONTRACT 5. All documents forming part of the Contract (and a of these documents) are intended to be corr complementary and mutually explanatory. The C shall be read as a whole. 2. The order of precedence of the Contract document be as follows: (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
O9-2020 from Department for Promotion of In and Internal Trade (Public Procurement Se Ministry of Commerce and Industry, Govt. of Inc.   2. The bidder should be a Class-I / Class-II Local Se meeting the requirement of minimum 20% Local Ce in line with the Public Procurement (Preference to M. India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020.   3. The Institute reserves the right to buy di items/quantities from different bidders considering prindividual/group of equipment/items or any other as decided by the Committee.   4. The Institute reserves the right to accept or rejequotations without assigning any reason thereof.   5. Prior to the expiration of the period of bid voice in the successful Bidder in writing.   6. Any amendment(s) in the Purchase Order will be pewithin SEVEN DAYS of its issuance. No amen will be permitted beyond this period.   7. Any amendment(s) in the Purchase Order will be pewithin SEVEN DAYS of receipt of the Purchase Order the successful Bidder shall sign and date its copy of page and return it to the Purchaser.   7. CONTRACT AGREEMENT	
and Internal Trade (Public Procurement Se Ministry of Commerce and Industry, Gott. of Int  2. The bidder should be a Class-I / Class-II Local S meeting the requirement of minimum 20% Local (in line with the Public Procurement (Preference to N India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020.  3. The Institute reserves the right to buy di items/quantities from different bidders considering prindividual/group of equipment/items or any other as decided by the Committee.  4. The Institute reserves the right to accept or rejequotations without assigning any reason thereof.  2. AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amen will be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder on each page shall constitute Contract Agreement.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be corn complementary and mutually explanatory. The C shall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
Ministry of Commerce and Industry, Govt. of Inc 2. The bidder should be a Class-I / Class-II Local S meeting the requirement of minimum 20% Local C in line with the Public Procurement (Preference to M India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020. 3. The Institute reserves the right to buy di items/quantities from different bidders considering p individual/group of equipment/items or any other as decided by the Committee. 4. The Institute reserves the right to accept or reje quotations without assigning any reason thereof.  2. AWARD OF PURCHASE ORDER 3. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing. 2. Any amendment(s) in the Purchase Order will be per within SEVEN DAYS of its issuance. No amen will be permitted beyond this period. 3. The Purchase Order will constitute the foundation Contract. 4. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser. 2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitut Contract Agreement. 4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT 4. All documents forming part of the Contract (and a of these documents) are intended to be corr complementary and mutually explanatory. The C shall be read as a whole. 2. The order of precedence of the Contract documen be as follows: (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
2. The bidder should be a Class-I / Class-II Local S meeting the requirement of minimum 20% Local (in line with the Public Procurement (Preference to N India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020. 3. The Institute reserves the right to buy di items/quantities from different bidders considering predicted by the Committee. 4. The Institute reserves the right to accept or rejequotations without assigning any reason thereof.  2. AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid voil IITPKD will issue the Letter of Intent / Purchase Other successful Bidder in writing. 2. Any amendment(s) in the Purchase Order will be pewithin SEVEN DAYS of its issuance. No amen will be permitted beyond this period. 3. The Purchase Order will constitute the foundation Contract. 1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser. 2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement. 4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be corn complementary and mutually explanatory. The Coshall be read as a whole. 2. The order of precedence of the Contract document be as follows: (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
meeting the requirement of minimum 20% Local C in line with the Public Procurement (Preference to M India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020.  3. The Institute reserves the right to buy di items/quantities from different bidders considering p individual/group of equipment/items or any other as decided by the Committee.  4. The Institute reserves the right to accept or reje quotations without assigning any reason thereof.  2. AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be pe within SEVEN DAYS of its issuance. No amen will be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitut Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be corr complementary and mutually explanatory. The C shall be read as a whole.  2. The order of precedence of the Contract document be as follows: (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
in line with the Public Procurement (Preference to M India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020.  3. The Institute reserves the right to buy distems/quantities from different bidders considering prindividual/group of equipment/items or any other as decided by the Committee.  4. The Institute reserves the right to accept or rejequotations without assigning any reason thereof.  1. Prior to the expiration of the period of bid void literacy will in the Purchase Order will be perwitting.  2. Any amendment(s) in the Purchase Order will be perwitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  3. CONTRACT AGREEMENT  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
India) Order 2017 No. P-45021/2/2017-PP(BE-II) 16-09-2020.  3. The Institute reserves the right to buy di items/quantities from different bidders considering p individual/group of equipment/items or any other as decided by the Committee.  4. The Institute reserves the right to accept or reje quotations without assigning any reason thereof.  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be per within SEVEN DAYS of its issuance. No amen will be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitut Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be corr complementary and mutually explanatory. The C shall be read as a whole.  2. The order of precedence of the Contract document be as follows: (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
3 CONTRACT AGREEMENT   1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchase.   2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.   2. Contract Agreement.   3 CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT   1. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Coshall be read as a whole.   2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement fermion with the requirement (iv) Supplier's Bid	
items/quantities from different bidders considering pindividual/group of equipment/items or any other as decided by the Committee.  4. The Institute reserves the right to accept or reject quotations without assigning any reason thereof.  Prior to the expiration of the period of bid void liTPKD will issue the Letter of Intent / Purchase Of the successful Bidder in writing.  Any amendment(s) in the Purchase Order will be perwitted beyond this period.  The Purchase Order will constitute the foundation Contract.  CONTRACT AGREEMENT  Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  AMENDMENT TO CONTRACT  All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Coshall be read as a whole.  The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
individual/group of equipment/items or any other as decided by the Committee.  4. The Institute reserves the right to accept or rejet quotations without assigning any reason thereof.  1. Prior to the expiration of the period of bid vorther successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amen will be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be corn complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	fferent
as decided by the Committee.  4. The Institute reserves the right to accept or rejequotations without assigning any reason thereof.  2 AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase Of the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  4. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be corn complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	rice of
4. The Institute reserves the right to accept or rejequotations without assigning any reason thereof.  2 AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be corn complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	factors
quotations without assigning any reason thereof.  2 AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase Of the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correcomplementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
2 AWARD OF PURCHASE ORDER  1. Prior to the expiration of the period of bid v IITPKD will issue the Letter of Intent / Purchase O the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Contract as a shole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	ct any
IITPKD will issue the Letter of Intent / Purchase Of the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be correcomplementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
the successful Bidder in writing.  2. Any amendment(s) in the Purchase Order will be perwithin SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	-
2. Any amendment(s) in the Purchase Order will be per within SEVEN DAYS of its issuance. No amen will be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. AMENDMENT TO CONTRACT  6. AMENDMENT TO CONTRACT  7. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Contract Agreement of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	rder to
within SEVEN DAYS of its issuance. No amenwill be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	• •
will be permitted beyond this period.  3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correctly complementary and mutually explanatory. The Contract Agreement of the Contract document be as follows:  (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
3. The Purchase Order will constitute the foundation Contract.  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  5. All documents forming part of the Contract (and a of these documents) are intended to be correct complementary and mutually explanatory. The Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	lments
CONTRACT AGREEMENT  1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correct complementary and mutually explanatory. The Costall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	of the
1. Within SEVEN DAYS of receipt of the Purchase the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4. CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correct complementary and mutually explanatory. The Coshall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	or the
the successful Bidder shall sign and date its copy of page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4 CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correct complementary and mutually explanatory. The Contract as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	Order
page and return it to the Purchaser.  2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitute Contract Agreement.  4 CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correct complementary and mutually explanatory. The Complementary and mutually explanatory and mutually explanatory.	
2. Copy of Purchase Order duly signed and dated successful Bidder on each page shall constitue Contract Agreement.  4 CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be correct complementary and mutually explanatory. The Contract as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
successful Bidder on each page shall constitue Contract Agreement.  4 CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be corrected complementary and mutually explanatory. The Contract as a whole.  2. The order of precedence of the Contract document be as follows: (i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	by the
4 CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT  1. All documents forming part of the Contract (and a of these documents) are intended to be corrected complementary and mutually explanatory. The Contract as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
AMENDMENT TO CONTRACT  of these documents) are intended to be corrected complementary and mutually explanatory. The Complementary and mutually explanatory and the Complementary and mutually explanatory. The Complementary and mutually explanatory and the Complementary and the C	
complementary and mutually explanatory. The C shall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	-
shall be read as a whole.  2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	lative,
2. The order of precedence of the Contract document be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	ontract
be as follows:  (i) Contract Agreement/Purchase Order  (ii) All Forms/Annexures  (iii) equipment/items and their requirement  (iv) Supplier's Bid	
(i) Contract Agreement/Purchase Order (ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	s shall
(ii) All Forms/Annexures (iii) equipment/items and their requirement (iv) Supplier's Bid	
(iii) equipment/items and their requirement (iv) Supplier's Bid	
(iv) Supplier's Bid	
IVI LONGOT LIGORIMANT	
` '	nall he
the Contract and is signed by a duly autl	
representative of each party to the Contract.	SILLOU
(v) Tender Document  3. No amendment or other variation of the Contract seffective unless it is in writing, is dated, expressly re	

REGISTRAR

### TECHNICAL SPECIFICATIONS

Name of the Item:	Ground Penetrating Radar and GNSS
Quantity:	1
Warranty Period:	1

S. No.	Items	IIT PKD required Specification
1	Geophysical Utility Inspection Equipment (Ground Penetrating Radar – GPR)	Supply of Geophysical utility inspection equipment (GPR) to detect and mark buried metallic and non-metallic utilities.
		Antenna: 250 MHz Ultra-Wide Band (UWB), tunable through inbuilt software; detects utilities up to 8 m depth in varying soil moisture; bandwidth-to-center frequency ratio = 1.
		Instrument Weight: Less than 22 kg; floating sensor mounted on a fiberglass cart with integrated odometer and self-calibration for multiple surface types.
		Compliance: IC, FCC, ETSI certified for ultra-wide bandwidth (UWB) devices.
		GPS: Internal GPS receiver and external GPS mountable with single cable for power and data transfer.
		Display Unit: 8" high-visibility, sunlight-readable LCD touchscreen; 1500 NIT brightness; 800:1 contrast ratio; 8 GB internal memory; USB port; Wi-Fi (IEEE 802.11 b/g/n); GPS/GLONASS; resistive touchscreen; IP65 protection (IEC 60529); built-in speaker; in-situ calibration capability.
		Display Input: 11–18 Volts, 4 Amps maximum.  Data Acquisition: Instant start/stop; digital equivalent time sampling; temperature and voltage compensation; odometer backup; crosshair depth measurement; DynaQ for real-time signal-to-noise enhancement.
		System Performance: 162 dB (hardware) + 10·log <sub>10</sub> factor.  Real-Time Processing: Automatic DynaT for selective visualization of small, medium, and large subsurface targets.
		Operating Modes: Line Scan and Grid Scan; split-screen "Map View" display.
		User Interface: Auto-hide buttons in Line Scan mode; display up to 30 m of line data; "No Save Mode" available.
		Calibration: On-screen hyperbola velocity calibration for accurate depth measurement.  Filtering: 5-level background subtraction filter to emphasize
		buried utilities.  Interpretation: Touch-to-interpret and export interpretations in .CSV format.
		Grid Scan Capability: Supports 5×5 m, 10×10 m, and 15×15 m grids; can collect around obstacles; generates and displays depth slices (including incomplete grids).
		Mapping & Integration: Real-time GPR line and plan map view; automatic Google Earth KMZ generation with path, flags, interpretations, and screenshots.
		Reporting: Save geo-referenced .jpg screenshots (up to 999 per project, 8991 across 9 projects); ability to email mini-report from display.
		Data Export: Single .GPZ file containing all project lines and grids.
		System Size (L×W×H): 100 × 70 × 115 cm.

	C . Will I d 221
	System Weight: Less than 22 kg.
	GPR Sensor Size: 63 × 41 × 23 cm.
	GPR Sensor Weight: 5 kg.
	Display Unit Weight: 2.83 kg (6.24 lbs).
	Display Specifications: 8.0" high-visibility, sunlight-readable LCD touchscreen; adjustable backlight; 1500 NIT brightness; 800:1 contrast ratio.
	Receiver Sensitivity: 1.5 microvolts lsb.
	Wireless: Integrated Wi-Fi (IEEE 802.11 b/g/n) and GPS/GLONASS.
	Audio: Built-in 85 dBA speaker with volume control.
	Ports: USB for data transfer.
	Battery: 12 V sealed lead-acid gel type; 9 Ah capacity; 4–6 hours field operation; 1.25 A current; including one spare battery.
	Battery Weight: Less than 4 kg (8.8 lbs).
	Charger: Built-in charger with status indicator; input 100–240 V, 1.5 A, 50/60 Hz; output 12 V @ 3 A.
	Environmental Protection: Ruggedized and environmentally sealed; IP65 protection.
	Operating Temperature: -40 °C to +50 °C.
	Relative Humidity: 10–90% (non-condensing).
	Charger Temperature Range: 0–30 °C.
	Regulatory Compliance: EMC (FCC, CE, IC, ACA, RSM) and Safety (TÜV, CE).
	Carrying Cases: At least two, suitable for display, battery, sensor, external GPS, and cables.
Software Package (Field + Office	Comprehensive software suite must be provided for field
Application)	data acquisition, processing, visualization, and reporting.  Data Management: Handles complete GPR Project (.GPZ)
	organization, including all line and grid data under one project folder with metadata tagging.
	Field Data Visualization: View real-time Line Scans with
	AutoGain; live map-view display showing GPR track and GPS path; real-time flagging and interpretation tagging.
	Post-Processing Tools: Depth-slice generation (automatic and
	manual); background subtraction filtering; smoothing and gain control; hyperbola fitting; layer-tracking features.
	Mapping Tools: Integration with Google Earth, displaying survey paths, marked utilities, and screenshots; import site
	base maps and overlay survey lines.  3D and Grid Visualization: 3D preview of grid data; photo
	slicer function to scroll through depth slices interactively; color-coded layer visualization.
	Editing and Optimization: Grid editing; merge/split functions for scans; line scan optimization tools for noise reduction and
	alignment.  Interpretation and Export: Add on-screen interpretations; auto
	depth annotation; export interpretations to .CSV; export data to other GPR software formats.
	Reporting: In-built reporting engine allowing creation of survey reports, embedding screenshots, flags, interpretations, and GPS coordinates.
	Multi-View Display: Supports viewing multiple GPR line scans simultaneously for correlation; side-by-side depth slice and line scan comparison.

		1
		Additional Capabilities: Add media files (images, videos, notes) to interpretation flags; launch Google Earth directly
		from software to visualize targets; background image overlay in map view.
		A minimum of three days of on-campus, onsite training must
		be provided, covering both hardware and software, including
		all operational and data processing modules.
		Minimum of one year warranty should be provided for the
		GPR instrument supplied for any manufacturing defects.
		Annual Maintenance Contract for 3 years from the date of completion of warranty period (Price should be quoted
		separately)
2	GNSS Receiver	High-precision multi-frequency GNSS receiver suitable for survey-grade positioning and mapping applications.
		Number of Channels: 1408 or more for simultaneous multi-
		constellation tracking.
		RTK Accuracy (Horizontal/Vertical): H: 8 mm + 1 ppm RMS / V: 15 mm + 1 ppm RMS or better.
		Initialization Time: Less than 10 seconds.
		Initialization Reliability: Greater than 99.9%.
		Code Differential GNSS Positioning Accuracy: Horizontal ±0.25 m + 1 ppm RMS / Vertical ±0.5 m + 1 ppm RMS or better.
		SBAS Accuracy: 0.5 m (H), 0.85 m (V) or better.
		Post Processing Kinematic (PPK): Supported for offline processing.
		PPP (Precise Point Positioning): Supported (B2b-PPP, Galileo
		E6-HAS).
		Wi-Fi Connectivity: 2.4 GHz, IEEE 802.11 b/g/n compliant.
		Bluetooth Connectivity: Version 4.2 / 2.1+EDR, 2.4 GHz frequency band.
		NFC (Near Field Communication): Supported for quick device touch pairing.
		UHF Radio Frequency Range: 410–470 MHz, 116 selectable channels.
		UHF Radio Transmission Power: Adjustable 0.5 W / 1 W / 2 W.
		UHF Working Range: 3–5 km typical, up to 8–15 km optimal (line of sight).
		Internal Battery: 7.2 V / 6900 mAh lithium battery providing up to 24 hours of operation (RTK Rover mode).
		Charging: 5 V 2.8 A Type-C USB port; supports external mobile power banks for extended operation.
		Weight: $\leq 0.8$ kg (including battery).
		Dimensions: 132 mm × 67 mm.
		Operating Temperature: -30 °C to +70 °C.
		Storage Temperature: -40 °C to +80 °C.
		Humidity: 100% non-condensing (fully sealed design).
		Water and Dust Protection: IP68 rated (dustproof and water-resistant, immersion up to 1 meter).
		Shock Resistance: 2 m natural drop onto concrete without functional damage.
		Internal Storage: Minimum 16 GB ROM or better for raw and processed data storage.
		Data Output Rate: Selectable from 1 Hz to 20 Hz.

Data Output Format: ASCII format compliant with NMEA-0183 protocol.
Static Data Format: Supports GNS and Rinex formats.  Network Mode: Supports VRS, FKP, and MAC; compatible with NTRIP protocol for correction data.
RTK Protocols Supported: CMR, RTCM 2.x, and RTCM 3.x.  Software Capabilities: GNSS data acquisition and control software for configuration, monitoring, and management of satellite tracking; supports real-time data visualization, logging, coordinate conversion, and quality monitoring.
Software Export and Post-Processing: Supports export of raw and corrected data to RINEX; compatible with major post-processing platforms; includes in-built PPK/PPP analysis module.
Data Communication: Integrated wireless communication module enabling base–rover setup, data streaming via UHF, Wi-Fi, and Bluetooth interfaces.
User Interface: Simple, intuitive GUI for satellite tracking, data recording, and correction input configuration; supports multi-language interface and firmware upgrade through USB or Wi-Fi.
System Integration: Capable of integration with data collectors, total stations, and field controllers via Bluetooth and network protocols.
Training Requirement: A minimum of two days of on-campus, onsite training must be provided, comprehensively covering both hardware and software aspects, including all operational modules.
Warranty: Minimum one-year comprehensive warranty for the GNSS instrument against any manufacturing defects.
Annual Maintenance Contract for 3 years from the date of completion of warranty period (Price should be quoted separately)

## <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

DOC	UMENT.
includ	We hereby undertake that there are pages, serially numbered, in the submitted tender ling the supporting documents. (Please serially number all the pages including blank page, if any).
No	We have submitted our principal's exclusive authorization letter which is specific for this tender dated
	This letter should be on the <u>letterhead of the quoting firm</u> and should be signed by a Competen prity.

# 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
rejecti	ion 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.
organi	zation/PSU's/Central Govt., /State Govt. Autonomous bodies/Central/state Universities/Central/State
Educat	tional Institutions, failing which the "FALL CLAUSE" will be applicable. The institute will look into a
reason	able 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
recove	er the excess charged amount from the subsequent/unpaid bill of the supplier.

<u>Note:</u> 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.

#### 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 letterhead of the quoting firm and should be signed by a Competent

Authority.

# 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 ( ✓ ) 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)		
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.]