



INDIAN INSTITUTE  
OF TECHNOLOGY  
PALAKKAD

**Indian Institute of Technology Palakkad**

भारतीयप्रौद्योगिकीसंस्थानपालक्काड

**STORES & PURCHASE SECTION**

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**Tender No: GTE/2023-24/087**

**Date of Publication: 04-12-2023**

**Date/Time of Closing: 26-12-2023, 15:00 hours**

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

**SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF  
AUTOMATED DRIP IRRIGATION SYSTEM**

Conforming to the specifications as in BoQ Technical.

Tender Documents may be downloaded from the e-Wizard Portal <https://mhrd.euniwizarde.com/>. Aspiring Bidders who have not enrolled/registered in e-Wizard should enroll/register before participating through the website <https://mhrd.euniwizarde.com/>. Bidders are advised to go through 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.euniwizarde.com/> as per the timeline below.

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

S. No.	Events	Date and Time
1	Publication of the Tender Document	04-12-2023
2	<b>Date of Pre-Bid Meeting</b>	<b>12-12-2023, 15 00 hours</b>
3	Last Date/Time for submission of ONLINE Bids	26-12-2023, 15:00 hours
4	Opening of Technical Bids	26-12-2023, 15:15 hours

**Pre-Bid Meeting:**

- Online Pre-Bid meeting will be held on **12-12-2023 at 15:00** hours 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 11-12-2023, 14:00 hours to [purchase@iitpkd.ac.in](mailto: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.

**TERMS AND CONDITIONS**

1	<b>GENERAL</b>	<p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(e) <b>IITPKD will respond to any request for clarification or modification of the Tender Document that are received up to TWO DAYS prior to the deadline for submission of bids prescribed by IITPKD. For this purpose, the prospective bidder(s) requiring clarification in the Tender Document shall notify IITPKD through the ONLINE Portal ONLY. Any such clarification, together with all the details on which the clarification had been sought, will be published in the ONLINE Portal ONLY. Deviations, if any, observed by the Institute in the submitted bids, from the Terms and Conditions of the Tender Document will not be accepted by the Institute.</b></p> <p>(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.</p> <p>(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.</p> <p>(h) The bidder shall not make or cause to be made any alteration, erasure or obliteration to the text of the Tender Document.</p> <p>(i) The Supplier shall not, without the prior written consent of the IITPKD, assign to any third party, the Contract or any part thereof.</p>
2	<b>COMPOSITION OF THE TENDER DOCUMENT</b>	<p>(a) The Tender Document comprises of:</p> <p>Instruction to the bidders including terms and conditions</p> <ol style="list-style-type: none"> <li>1. Technical Specifications (Annexure-I)</li> <li>2. Undertaking by the Bidder (Annexure-II)</li> <li>3. Fall Clause Notice Certificate (Annexure-III)</li> <li>4. Annexure regarding Blacklisting/Debarment (Annexure-IV)</li> <li>5. Self-Declaration – MII Order (Annexure-V)</li> </ol>
3	<b>DOCUMENTS</b>	<p>(a) <b>The Technical, Techno-commercial and Commercial Bids (Cover</b></p>

	<p><b>COMPRISING THE BID</b></p>	<p><b>One) and Commercial Bid (Cover Two) shall be submitted ONLINE through the e-Wizard Portal.</b></p> <p>(b) Bids submitted in any mode other than ONLINE will be rejected outright.</p> <p>(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.</p> <p>(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.</p> <p>(e) Compliance or Confirmation report with reference to the specifications and other terms and conditions should also be obtained from the principal.</p> <p>(f) Information related to the agency/bidder such as photocopies of the Registration/PAN/GST/TIN shall be furnished.</p> <p>(g) The technical bid should consist of all technical details along with commercial terms and conditions. <b>No prices should be included in the technical bid. Mentioning Prices in the Technical Bid shall lead to <u>DISQUALIFICATION.</u></b></p> <p>(h) Bidders (or OEM) who are bidding for this tender,</p> <ol style="list-style-type: none"> <li>1) Should have implemented at least <b>THREE ORDERS of AUTOMATED DRIP IRRIGATION SYSTEM</b> during previous <b>FIVE financial years (2018-19, 2019-20, 2020-21, 2021-22, 2022-23)</b> 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.</li> <li>2) Should have an <b>Average Annual Turnover of Rs 89,00,000/- (RUPEES EIGHTY-NINE LAKHS ONLY) during the last THREE financial years (2020-21, 2021-22, 2022-23).</b> 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.</li> <li>3) Should submit Digitally signed Tender Document in Cover One.</li> </ol>
<p><b>4</b></p>	<p><b>EARNEST MONEY DEPOSIT (EMD)</b></p>	<p>(a) The bidder shall furnish EMD of <b>Rs. 88,100/- (RUPEES EIGHTY-EIGHT THOUSAND ONE HUNDRED ONLY)</b> through online payment gateway in the E-Wizard.</p> <p>(b) <b>Bids not accompanied by EMD shall be DISQUALIFIED.</b></p> <p>(c) The firms who are registered with National Small Industries Corporation (NSIC) / or Small Scale Industrial (SSI)/ Micro &amp; 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.</p>
<p><b>5</b></p>	<p><b>PERFORMANCE SECURITY</b></p>	<p>(a) The performance security shall be submitted within <b>FIFTEEN DAYS</b> of receipt of the material by the IITPKD. The successful bidder shall furnish the Performance Security equal to <b>5%</b> of the order/contract value (excluding the value of annual maintenance charges). The Performance Security shall be valid all along the warranty period and shall extend upto <b>SIXTY DAYS</b> after the date of completion of warranty period. It shall be ensured by the successful bidder that the validity of the</p>

		<p>Performance Security submitted is extended depending on the date of commencement of the Warranty.</p> <p>(b) The performance security shall be an E-Bank Guarantee (Digital Document Execution – DDE MODE by National E-Governance Service Limited) issued by the Indian Scheduled bank acceptable to the IITPKD or a Demand Draft favoring, INDIAN INSTITUTE OF TECHNOLOGY PALAKKAD payable at PALAKKAD.</p> <p>(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.</p> <p>(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.</p>
6	<b>BID PRICES AND CURRENCY</b>	<p>(a) Prices must be quoted separately for each equipment/item identified.</p> <p>(b) <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.</b></p> <p>(c) Prices quoted by the bidder shall be fixed during the validity of the bid.</p> <p>(d) <b>Prices of the equipment/items shall be quoted in Indian Rupees (INR) .</b></p>
7	<b>LETTER OF CREDIT</b>	<p>(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.</p> <p>(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:</p> <ul style="list-style-type: none"> <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> </ul> <p>(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,</p>

		<p>integration, validation and installation report/certification jointly given by the end user and the supplier.</p> <p><b>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.</b></p> <p><b>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.</b></p>
8	<b>PERIOD OF VALIDITY OF BIDS</b>	<p>(d) Bids shall remain valid for a period of <b>180 DAYS</b> after the date of the deadline for submission of bids prescribed by IITPKD.</p> <p>(e) If the deadline is extended due to unforeseen circumstances, the bid validity shall be deemed to have extended accordingly.</p>
9	<b>TIME FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF THE EQUIPMENTS/ITEMS</b>	<p>(a) The Supplier shall supply the equipment/items within the period specified in the tender document i.e. within <b>12 WEEKS</b> of signing the purchase order or within the period mutually agreed between IITPKD and supplier. All the equipment and accessories should be delivered at, <b>IIT PALAKKAD, SATCARD, SAHYADRI CAMPUS, PALAKKAD – 678 623.</b></p> <p>(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.</p> <p>(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.</p> <p>(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.</p>
10	<b>PRODUCT UPGRADES</b>	<p>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.</p>
11	<b>PENALTIES</b>	<p>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.</p>
12	<b>UP-TIME GUARANTEE/ DOWNTIME PENALTY CLAUSE</b>	<p>(a) The Supplier should provide up-time guarantee of 95% [24 (hours) X 7 (days) X 365 (days)] basis during the warranty period.</p> <p>(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.</p>
13	<b>LIQUIDATED DAMAGES</b>	<p>If a firm accepts an order and fails to execute the order, in full or part, as per the terms and conditions stipulated therein, it will be open to the Institute to recover liquidated damages from the firm at the rate of 1% of the value of the undelivered goods per month or part thereof, subject to a maximum of 5% of the value of the undelivered goods. It will also be open to the Institute alternatively, to arrange procurement of the required stores from any source, at the risk and expense of the firm, accepted and failed to execute the order according to stipulations agreed upon. This will also entail the removal of the defaulters' name from the approved/registered list of Suppliers.</p>
14	<b>EFFECT OF FORCE MAJEURE</b>	<p>(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,</p>

		<p>then it shall notify the IITPKD in writing of the occurrence of such event and the circumstances of the event of Force Majeure within <b>FIFTEEN DAYS</b> after the occurrence of such event.</p> <p>(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.</p> <p>(c) No delay or non-performance by the Supplier caused by the occurrence of any event of Force Majeure shall:</p> <ol style="list-style-type: none"> <li>i. Constitute a default or breach of the Contract;</li> <li>ii. Give rise to any claim for damages or additional cost or expense occasioned by the delay or non-performance.</li> </ol> <p>(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 <b>SIXTY DAYS</b> on account of one or more events of Force Majeure, the IITPKD shall have the right to terminate the Contract by giving a notice to the Supplier.</p>
15	<b>EXTENSION OF TIME LIMITS FOR SUPPLY AND MAKING OPERATIONAL, THE EQUIPMENT</b>	<p>(a) The time limit for supply, installation &amp; commissioning, integration &amp; validation shall be extended if the supply is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:</p> <ol style="list-style-type: none"> <li>i. Any occurrence of Force Majeure;</li> <li>ii. Any other matter specifically mentioned in the Contract;</li> </ol> <p>(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.</p>
16	<b>GOVERNING LAW AND SETTLEMENT OF DISPUTES</b>	<p>(a) The Contract shall be governed by and interpreted in accordance with the laws of India.</p> <p>(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.</p> <p>(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 <b>Annexure-II</b>.</p> <p>(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.</p>

## AWARD OF CONTRACT

<b>1</b>	<b>AWARD CRITERIA</b>	<ol style="list-style-type: none"><li>1. IITPKD will award the Contract to the Bidder whose bid has been determined to be substantially responsive and <b>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.</b></li><li>2. 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.</li><li>3. 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.</li></ol>
<b>2</b>	<b>AWARD OF PURCHASE ORDER</b>	<ol style="list-style-type: none"><li>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.</li><li>2. Any amendment(s) in the Purchase Order will be permitted within <b>SEVEN DAYS</b> of its issuance. No amendments will be permitted beyond this period.</li><li>3. The Purchase Order will constitute the foundation of the Contract.</li></ol>
<b>3</b>	<b>CONTRACT AGREEMENT</b>	<ol style="list-style-type: none"><li>1. Within <b>SEVEN DAYS</b> of receipt of the Purchase Order, the successful Bidder shall sign and date its copy on each page and return it to the Purchaser.</li><li>2. Copy of Purchase Order duly signed and dated by the successful Bidder on each page shall constitute the Contract Agreement.</li></ol>
<b>4</b>	<b>CONTRACT DOCUMENTS / AMENDMENT TO CONTRACT</b>	<ol style="list-style-type: none"><li>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 shall be read as a whole.</li><li>2. The order of precedence of the Contract documents shall be as follows:<ol style="list-style-type: none"><li>(i) Contract Agreement/Purchase Order</li><li>(ii) All Forms/Annexures</li><li>(iii) equipment/items and their requirement</li><li>(iv) Supplier's Bid</li><li>(v) Tender Document</li></ol></li><li>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.</li></ol>

**REGISTRAR**

**TECHNICAL SPECIFICATIONS**

<b>Name of the Item:</b>	<b>Automated Drip Irrigation and Fertigation System</b>
<b>Quantity:</b>	<b>1</b>
<b>Warranty Period:</b>	<b>1 Year</b>

<b>S. No.</b>	<b>Items</b>	<b>IIT PKD required Specification</b>
1	<b>Fully Automatic Irrigation Controller and Fertigation with On-line Ec-pH Control System - Quantity -1( one ) Number</b>	<ul style="list-style-type: none"> <li>• 16 outputs assembly for irrigation controller expandable up to 64 outputs</li> <li>• 15 Irrigation programs</li> <li>• 10 fertilizer dosing programs</li> <li>• Input 230VAC &amp; Output 24VAC, each output 2 Amps load</li> <li>• Surge protection on inputs &amp; Outputs</li> <li>• 11 analogue Inputs (Ec-pH, Temp, Moisture, Etc., &amp; 8 digital inputs (Water Meter, Pressure &amp; External Switches, Etc.,)</li> <li>• Number of valves per irrigation program –Up to 40</li> <li>• Irrigation strategy based on dosing program, water run time and irrigation program</li> <li>• Irrigation starts based on Time, Volume, Moisture Condition, VPD sum or radiation sum</li> <li>• Activates local and remote devices such as pumps, dosing systems, main valves, field valves, filters etc</li> <li>• This system shall be Controlling Online via Ethernet (Mobile App and Web remote Access &amp; Offline (HMI keypad) &amp; PC link option RS-232, RS-485</li> <li>• Inbuilt 5 Venturis and extendable up to 8 venturis with online EC &amp; PH monitoring and provides fast and accurate fertilizer and acid controlling facility</li> <li>• EC Sensor-Cell constant <math>K=1.0</math>, Typical measuring range - 0.1 to approx. 5 mS/cm, Temperature compensation - PT100, Electrode material - Special Graphite</li> <li>• pH Sensor - Active pH element UW glass (pH 0 — 12, briefly pH 14), Active redox element platinum tip (<math>\pm 2000</math> mV) Electrolyte - solid electrolyte, Ec-pH Transmitter Input power 22 – 28 VAC, 50/60Hz, 5-Watt Input current 200 mA</li> <li>• Concentrate acid channel with no moving parts</li> <li>• Unique mixing chamber</li> <li>• Each venturi flow rate 50 LPH</li> <li>• Booster pump 3-Phase 440 vac ,3 Hp Head 53m and acid proof EPDM technology</li> <li>• Made from high quality components and PVC with an aluminum, corrosion –resistant frame &amp; adjustable legs</li> <li>• System operating pressure 2.5 to 4.0 Bar</li> </ul>
2	<b>Output Board Serves mainly for controlling valves, pumps, dosing systems, etc. -Quantity 2 (Two) Number</b>	<ul style="list-style-type: none"> <li>• Number of outputs @ Each Board – 8</li> <li>• Output voltage 24 VAC</li> <li>• Max output current per channel 2.0 Amps</li> <li>• Frequency 50 Hz</li> </ul>



3	<b>Communication Box - Quantity -1 (one) Number</b>	<ul style="list-style-type: none"> <li>• The remote management irrigation and fertigation controllers with intuitive dashboard, hot keys, visuals.</li> <li>• Includes different access level by accounts: view only, partial access, full access or administrator work even without internet access by simply plugging a display or monitor directly</li> <li>• 24/7 access to irrigation controllers Multiple, simultaneous users have network access</li> <li>• Web, cloud, and cellular connectivity</li> <li>• Push notifications</li> <li>• Irrigation controller's analytics</li> </ul>
4	<b>Communication Board</b> Quantity - 1(One) Number	<ul style="list-style-type: none"> <li>• Communication Mode RS485</li> <li>• Baud Rate - 9600 BPS</li> <li>• Maximum working Distance Via 1.0 Sq.mm Shield Cable – 2000 Meters</li> </ul>
5	<b>Pump Interface Unit , b</b>	<ul style="list-style-type: none"> <li>• Pump Auto On/Off Interface Unit</li> <li>• Powder-coated metal box</li> <li>• Input Operating voltage 24 VAC, 50Hz</li> </ul>
6	<b>Disc filter-</b> Quantity - 6 (Six) Numbers	<ul style="list-style-type: none"> <li>• Size: 3/4"</li> <li>• Filtration: 130 micron/120mesh</li> <li>• Capacity 4m3/Hr</li> <li>• Plastic parts-corrosion free</li> </ul>
7	<b>Ball Valve-</b> Quantity - 2 (two) Numbers	<ul style="list-style-type: none"> <li>• 1.5" PP Ball Valve</li> <li>• Corrosion free</li> <li>• Body material (Engineered plastic)</li> <li>• Flow rate: 12m3/Hr</li> </ul>
8	<b>Combination Air Valve.</b> Quantity - 3(three) Numbers	<ul style="list-style-type: none"> <li>• 1" Air and Vacuum and Automatic Air Release Valves</li> <li>• PRESSURE RATING (BAR) – 10</li> <li>• Body material PA66 (Engineered plastic)</li> <li>• Air Release at 10 bar (M3/Hr) -40</li> <li>• Air Relief at +0.4 BAR (M3/Hr) – 250</li> <li>• Air Intake at -0.4 BAR (M3/Hr) - -180</li> </ul>
9	<b>Surge Protector.</b> Quantity-2(Two) Number	<ul style="list-style-type: none"> <li>• Control Safety for High Voltage and lightning protection</li> <li>• Maximum Surge Voltage – 250 VAC</li> <li>• Maximum Load – 5 Amps with Fuse</li> <li>• Accuracy: 2% +/-</li> </ul>
10	<b>Solenoid Valve.</b> Quantity -11(Eleven) Number	<ul style="list-style-type: none"> <li>• Size 2" with flow control &amp; pressure regulating</li> <li>• Operating voltage 24VAC</li> <li>• Flow rate 0.1 to 34 m3/hr</li> <li>• Operating for Auto, Manual options</li> <li>• Production class F, IP66(CE Certification)</li> <li>• Body material PA66 (Engineered plastic)</li> <li>• Operating pressure 0.3 to 10 Bar</li> <li>• Diaphragm EPDM</li> </ul>
11	<b>2" Pressure Sustaining Valve</b> Quantity -1(one) Number	<ul style="list-style-type: none"> <li>• Maximum pressure – 10 Bar</li> <li>• Minimum recommended flow - 1 m3/h</li> <li>• Maximum Flow at 0.2m head loss - 35 m3/h</li> <li>• Minimum operating pressure - 0.4 bar (6 p</li> </ul>
12	<b>Water Meter</b> Quantity - 1(one) Number	<ul style="list-style-type: none"> <li>• 2" water meter, flow rate 40 m3/hr</li> <li>• Woltman Silver Turbo (WST) with a wide measuring rate</li> <li>• Resistance – bearings and materials used in the WST to ensure long life expectancy.</li> <li>• Magnetic Coupling – the WST has a unique measuring unit with only one moving element in contact with water, and has repelling magnets, the impeller and the transmitting gear, instead of the attracting magnets install the WT.</li> <li>• Maximum working pressure 16 Bar</li> </ul>

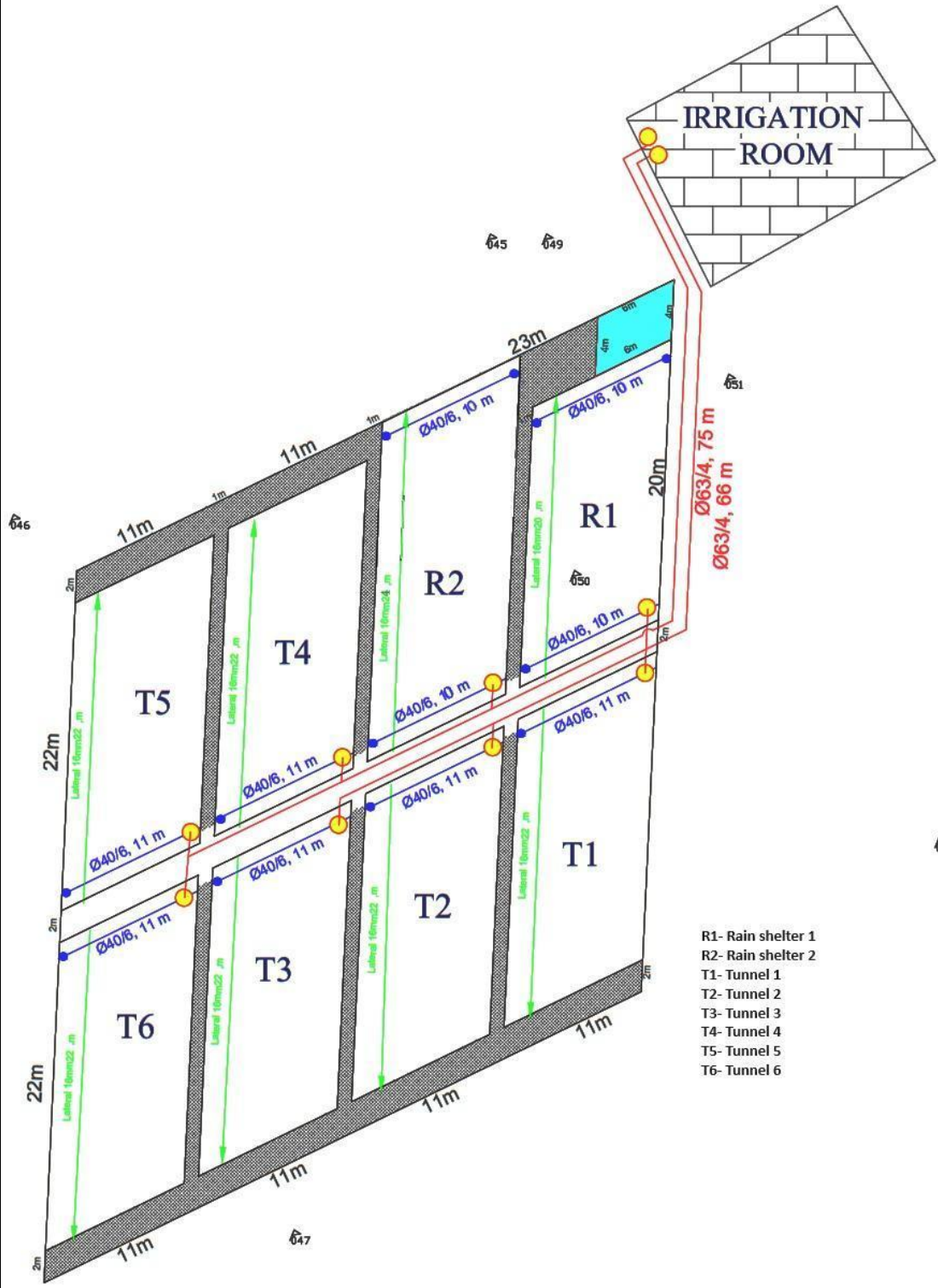
		<ul style="list-style-type: none"> <li>• Dial plates can be supplied in m3 or US gallons. Totalizer has big and clear numerals</li> <li>• Sensor based output: Digital (10 lit/pulse)</li> <li>• Sensor monitors the volumetric water content (VWC) of the soil based on time domain transmissometry (TDT) technology</li> <li>• Stainless steel, robust all-soil sensor</li> <li>• Output format: 0.5-5.0mA</li> <li>• Typical measurement field 4 cm in all directions from the most external element</li> <li>• Power requirements: 5.5-18VDC, 10-20mA (max)</li> <li>• Accuracy: 1% volumetric soil moisture</li> <li>• Temperature range Full accuracy: over 0 to 50 C</li> <li>• Environmental IP68 with shield cables</li> </ul>
13	<b>Soil Moisture Sensor</b> Quantity - 4 (four) Number	<ul style="list-style-type: none"> <li>• Sensor monitors the volumetric water content (VWC) of the soil based on time domain transmissometry (TDT) technology</li> <li>• Stainless steel, robust all-soil sensor</li> <li>• Output format: 0.5-5.0mA</li> <li>• Typical measurement field 4cm in all directions from the most external element</li> <li>• Power requirements: 5.5-18VDC, 10-20mA (max)</li> <li>• Accuracy: 1% volumetric soil moisture</li> <li>• Temperature range Full accuracy: over 0 to 50 C</li> <li>• Environmental IP68 with shield cables</li> </ul>
14	<b>Weather Station</b> Quantity - 1 (one) Number	<ul style="list-style-type: none"> <li>• Provides real-time weather monitoring. Effective under the most demanding conditions. The station is fully integrated with an Irrigation controller enabling viewing and storing of data on any device - anytime, anywhere. It can be directly wired to the Irrigation controller connection.</li> </ul> <p><b>Data Coverage</b></p> <ul style="list-style-type: none"> <li>• Air temperature, Relative humidity, Radiation, Wind speed, Wind direction, Rain gauge, Daily rain counter, ET calculation (evapotranspiration)</li> </ul>
15	<b>Air Blower Agitator</b> Quantity -1(one) Number	<ul style="list-style-type: none"> <li>• 3Hp, 3 phase agitator</li> <li>• Corrosion free Aluminum Body</li> <li>• Inlet &amp; Outlet size - 2" (63mm)</li> <li>• Air flow rate 420m3/Hr</li> </ul>
16	<b>Sand &amp; Disc Filter Back-Flushing Control Valve</b> Quantity - 3(three) Number	<ul style="list-style-type: none"> <li>• 2" Reinforced-Polyamide body</li> <li>• 3-directional, double-chamber valve</li> <li>• Super-fast position change</li> <li>• Operating Voltage - 24VAC</li> <li>• Flow rate factor at filtering - 18 m3/h</li> <li>• Flow rate factor at flushing – 20 L/M</li> <li>• Operating pressure range: Standard model: 1 - 10 bar</li> <li>• Maximal operating temperature: Standard models - 65°C</li> </ul>
17	<b>Sand Filter Backwash By-pass Valve</b> Quantity- 1(one) Number	<ul style="list-style-type: none"> <li>• Size 2" with flow control &amp; pressure regulating</li> <li>• Operating voltage 24VAC ,90mA</li> <li>• Flow rate 0.1 to 34 m3/hr • Operating for Auto, Manual options</li> <li>• Production class F, IP66(CE Certification)</li> <li>• Body material PA66 (Eng</li> </ul>

18	<b>Stabilizer</b> Quantity - 1(one) Number	<ul style="list-style-type: none"> <li>• 1 KVA Servo stabilizer</li> <li>• Input 440VAC, Output 220VAC</li> <li>• Surge production</li> <li>• Accuracy + or - 5%</li> <li>• High and Low voltage production</li> </ul>
19	<b>Sand Filter</b> Quantity - 1(one) Number	<ul style="list-style-type: none"> <li>• Material - M/S With Powder Coated Rugged tank design and industry-leading anticorrosion and UV resistance</li> <li>• Sand filter tank includes an upper service opening, side service opening, upper inlet water diffuser, gravel filtration media, inner filtration chamber floor with filter elements, and an outlet opening for the filtered water (Equal or better than)</li> <li>• Gravel filtration is a process where water, contaminated with silt, sand and organic materials flows through a media of small gravel at a relatively slow rate</li> <li>• Sand filter provides deep, three-dimensional filtering with back flush cleaning</li> <li>• Maximum Flow – 20 m<sup>3</sup>/H</li> <li>• Maximum working pressure – 4.0 Bar</li> <li>• Inlet, Outlet and Backflush Size - 2"</li> </ul>
20	<b>Disc Filter</b> Quantity -1(one) Number	<ul style="list-style-type: none"> <li>• Filter size - 2" Filtration - 130 micron/120mesh</li> <li>• Adapts to horizontal or vertical installation • Detachable spine with Pressure differential disc compression</li> <li>• Maximum working pressure – 8.0 Bar</li> <li>• Capacity – 20 m<sup>3</sup>/Hr</li> <li>• Total filtration area- 950 cm<sup>2</sup> • Total filtration volume - 1225 cm<sup>3</sup></li> <li>• Material Poly-Propylene Plastic</li> </ul>
21	<b>Venturi Injector</b> Quantity -1(one) Number	<ul style="list-style-type: none"> <li>• Inject liquid into a continuousflow based on a pressure difference (venturi principle).</li> <li>• Self-operated chemical injector system</li> <li>• Operated by existing water pressure</li> <li>• Integral non-return valve</li> <li>• Nonelectrical operation &amp; no moving parts</li> <li>• Size – ¾" Working pressure – 1.40 to 4 Bar</li> <li>• Maximum suction flow – 150 L/H at 2 m<sup>3</sup>/h motive flow</li> <li>• Material - Reinforced polypropylene</li> <li>• Venturi kit with 1.0 meters of clear hose, manual control valve, filter</li> </ul>
22	<b>Pressure Gauge</b> Quantity -3(Three) Number	<ul style="list-style-type: none"> <li>• Measurement of pressure in irrigation systems</li> <li>• Gauge Diameter - 63 mm (2")</li> <li>• Connection - ¼" bottom brass connection</li> <li>• Maximum range - 1 to 8 bar</li> <li>• Working pressure - 0.1 x full range</li> <li>• Temperature: -20 °C to 60 °C</li> <li>• Materials - Metal glycerine-filled (housing), white plastic (dial face) plastic (sight glass)</li> </ul>
23	<b>Combination Air Valve</b> Quantity - 4(Four) Number	<ul style="list-style-type: none"> <li>• 1" Air and Vacuum and Automatic Air Release Valves</li> <li>• PRESSURE RATING (BAR) – 10</li> <li>• Body material PA66 (Engineered plastic)</li> <li>• Air Release at 10 bar (M<sup>3</sup>/Hr) -40</li> <li>• Air Relief at +0.4 BAR (M<sup>3</sup>/Hr) – 250</li> <li>• Air Intake at -0.4 BAR (M<sup>3</sup>/Hr): -180</li> </ul>

24	<b>Quick Pressure Relief Valve</b> Quantity - 1(One) Number	<ul style="list-style-type: none"> <li>• Pressure-relief Valve protects a system against pressure surges caused by pump startup or valves closure</li> <li>• Valve will be hydraulic, direct sealing diaphragm type, which allows inline maintenance</li> <li>• No stem, shaft, or guide bearing will be located within the water passage</li> <li>• Valve will be activated by the line pressure</li> <li>• The valve will be operated by a pressure relief pilot valve for fast opening at a high-pressure set point</li> <li>• Body and Bonnet material - Cast Iron, Ductile Iron, Bronze &amp; Coating – Polyester</li> <li>• Diaphragm - Natural Rubber &amp; Spring - SST 302</li> <li>• Quick Relief valve Size - 2", Pressure adjustment range – 1.0 to 9.0 Bar</li> <li>• Control Bores 1/8",1/4",1/2" National Pipe Thread (NPT) &amp; Coated steel Bolts/ Nuts</li> <li>• Connections - Female British Standard Pipe (F-BSP) Threads</li> </ul>
25	<b>Kinetic Air Valve</b> Quantity - 8(eight) Number	<ul style="list-style-type: none"> <li>• Air &amp; Vacuum Valve discharges air at high flow rates during the filling of the system and admits air at high flow rates during drainage, pump shut-off or at water column separation.</li> <li>• Made of high strength Polypropylene materials, and all operating parts are made of specially selected corrosion-resistant materials</li> <li>• Drip-tight sealing at low pressure &amp; All parts are UV protected</li> <li>• Working Pressure Range: 0.2 - 10 bar</li> <li>• Working Temperature: 60 C</li> <li>• Size - 1" (25mm) male threaded</li> <li>• Orifice Area - 314 Sq.mm</li> </ul>
26	<b>Non-Return Valve</b> Quantity - 1(one) Number	<ul style="list-style-type: none"> <li>• Size - 2" Material Stainless Steel</li> <li>• Maximum working Pressure 10 bar</li> <li>• Connection Type Flanged End</li> <li>• Type Single Wafer Dual Plate Check Valve</li> </ul>
27	<b>Pressure Compensated Drip Line</b> Quantity - 4100 (four thousand one hundred) meters	<ul style="list-style-type: none"> <li>• Pressure-compensated range: 0.4 bar – 3.5 bar.</li> <li>• Injected dripper, very low CV with injected silicon diaphragm.</li> <li>• High UV resistant. Resistant to standard nutrients used in agriculture.</li> <li>• ISO 9261 Standards with Israel Standard Institute (SII)-certified production.</li> <li>• Pressure Compensated mechanism &amp; self-flushing &amp; continuous self-cleaning mechanism</li> <li>• Anti Siphon Mechanism, TurboNet Technology &amp; Wide Filtration area.</li> </ul>
28	<b>Plain Lateral</b> Quantity - 500 (Five Hundred) meters	<ul style="list-style-type: none"> <li>• Made with the finest available low/medium density polyethylene resin.</li> <li>• Manufactured with UV and oxidation protection making them durable to solar radiation without significant damage for many years.</li> <li>• PE pipes are resistant to saline water, acid, or alkaline solutions.</li> <li>• The blank drip lines meet ISO 9261 Standards with Israel Standard Institute (SII)- certified production.</li> <li>• Utilizing high standard manufacturing to ensure the uniformity of internal diameter and wall thickness.</li> </ul>

29	<b>16mm Barb Coupling Connector</b> Quantity - 50 (Fifty) Numbers	<ul style="list-style-type: none"> <li>Used for connecting 16 mm plain lateral to 16 mm plain lateral.</li> <li>Highly reliable connector, relatively easy to install.</li> <li>UV resistant, Durable one-piece construction</li> </ul>
30	<b>17mm Barb Coupling Connector</b> Quantity - 200 (Two Hundred) Numbers	<ul style="list-style-type: none"> <li>Used for connecting Dripline to Dripline.</li> <li>Highly reliable connector, relatively easy to install.</li> <li>UV resistant, Durable one-piece construction</li> </ul>
31	<b>16mm End Line Plug</b> Quantity- 450 (Four Hundred and fifty ) Numbers	<ul style="list-style-type: none"> <li>“8” end plug used to close lateral end.</li> <li>Highly reliable connector, relatively easy to install.</li> <li>UV resistant, Durable one-piece construction</li> </ul>
32	<b>16mm Barb Start Connector</b> Quantity- 450 (Four Hundred and fifty ) Numbers	<ul style="list-style-type: none"> <li>Used to take lateral connection form PVC submain.</li> <li>Highly reliable connector, relatively easy to install.</li> <li>UV resistant, Durable one-piece construction</li> </ul>
33	<b>17mm to 16mm Barb Reducer Coupling Connector</b> Quantity- 450 (Four Hundred and fifty) Numbers	<ul style="list-style-type: none"> <li>Used to connect plan lateral to dripline.</li> <li>Highly reliable connector, relatively easy to install.</li> <li>UV resistant, Durable one-piece construction</li> </ul>
34	<b>16mm Rubber Grommet</b> Quantity-450 (Four Hundred and fifty ) Numbers	<ul style="list-style-type: none"> <li>Used to take lateral connection from PVC submain.</li> <li>Highly reliable connector, relatively easy to install.</li> <li>UV resistant, Durable one-piece construction.</li> </ul>
35	<b>63mm PVC Pipe 4Kg/Sq.cm</b> Quantity-180 (One Hundred Eighty) Meters	<ul style="list-style-type: none"> <li>Unplasticized PVC Pipes for Potable Water supplies</li> <li>Manufacture as per BIS standard (IS 4985 :2000)</li> </ul>
36	<b>40mm PVC Pipe 4Kg/Sq.cm</b> Quantity- 120 (One Hundred Twenty) Meters	<ul style="list-style-type: none"> <li>Unplasticized PVC Pipes for Potable Water supplies</li> <li>Manufacture as per BIS standard (IS 4985 :2000)</li> </ul>
37	<b>50mm Polypropylene Ball Valve</b> Quantity-14 (Fourteen) Numbers	<ul style="list-style-type: none"> <li>Used for controlling valve operation at submain.</li> <li>Easy to install, Available in Threaded &amp; plan connection.</li> </ul>
38	<b>Water Carrying Pipeline 63mm PVC Pipe 4Kg/Sq.cm</b> Quantity-30 (Thirty) Meters	<ul style="list-style-type: none"> <li>Unplasticized PVC Pipes for Potable Water Supplies</li> <li>Manufacture as per BIS standard (IS 4985:2000)</li> </ul>
39	<b>2” Non-Return Valve</b> Quantity- 1 (One) Number	<ul style="list-style-type: none"> <li>Used to avoid reverse flow in the pipeline.</li> </ul>
40	<b>1” Kinetic Air Valve</b> Quantity-1 (One) Number	<ul style="list-style-type: none"> <li>Used to remove excess air trapped in the pipe to protect against bursting.</li> <li>Operating pressure of 0.1 bar to 16 bar</li> <li>Maximal water temp. for continuous operation: 60°C / 140°F</li> <li>Leak-proof sealing at all conditions, including low system pressure.</li> </ul>
41	<b>Dosing valve</b> Quantity-1 (One) Number	<ul style="list-style-type: none"> <li>FIP S12 24 VAC 50/60 HZ viton valve for dosing channel</li> </ul>
42	<b>Check valve</b> Quantity-2 (Two) Number	<ul style="list-style-type: none"> <li>Check valve for dosing channel</li> </ul>
43	<b>Aquavit coil</b> Quantity- 4 (Four) Number	<ul style="list-style-type: none"> <li>Aquanet 2-11/2 Operat. Mechan. AC. Replace &amp; Operating voltage 24 VAC</li> </ul>
44	<b>Rain Shelter</b> 1 (One) Number	<ul style="list-style-type: none"> <li>Area: Rain-shelter having 240 m2 of length 24 m and width 10 m .</li> <li>UV stabilized, diffused, IR blocked, anti-dust 200-micron polyethylene sheet.</li> <li>Shade net red 50% monofilament &amp; Shade net 35 % green monofilament</li> </ul> <p><b>Structure dimension</b></p> <ul style="list-style-type: none"> <li>Central height: 3.5 m</li> <li>Gutter height: 1.90 m</li> </ul>

		<ul style="list-style-type: none"> <li>• Total width: 10 m</li> <li>• Span width: 10 m</li> <li>• Bay length: 4m</li> <li>• Pipe thickness: 2mm GI B' Class</li> <li>• All nut bolt and self-drilling screws of stainless steel 202 grade</li> <li>• Proving and fixing of the framework using GI pipes 2mm thick hot dipped zinc galvanized (275gsm) with ISI mark, grade. B class, including the cost for installation and necessary fittings and accessories.</li> </ul>
45	<b>Rain Shelter</b> 1 (One) Number	<ul style="list-style-type: none"> <li>• Area: Rain-shelter having 200 m2 of length 20 m and width 10 m .</li> <li>• UV stabilized, diffused, IR blocked, anti-dust 200-micron polyethylene sheet.</li> <li>• Shade net red 50% monofilament &amp; Shade net 35 % green monofilament</li> </ul> <p><b>Structure dimension</b></p> <ul style="list-style-type: none"> <li>• Central height: 3.5 m</li> <li>• Gutter height: 1.90 m</li> <li>• Total width: 10 m</li> <li>• Span width: 10 m</li> <li>• Bay length: 4m</li> <li>• Pipe thickness: 2mm GI B' Class</li> <li>• All nut bolt and self-drilling screws of stainless steel 202 grade</li> <li>• Proving and fixing of the framework using GI pipes 2mm thick hot dipped zinc galvanized (275gsm) with ISI mark, grade. B class, including the cost for installation and necessary fittings and accessories.</li> </ul>
46	Electrical Cable & Accessories. <b>LS(Lump sum)</b>	
47	Fertilizer Stock Tank with PVC & UPVC Accessories <b>LS(Lump sum)</b>	
48	Labour charges for supplying, fixing in position, laying, fittings, trench work, and backfilling, commissioning, etc. <b>LS(Lump sum)</b>	
49	<b>Manifold for Mainline</b> <b>LS(Lump sum)</b>	
50	<b>Manifold for Venturi</b> <b>LS(Lump sum)</b>	
51	<b>Head Unit Fittings</b> <b>LS(Lump sum)</b>	
52	Complete fittings and accessories, Installation charges, and transportation charges <b>LS(Lump sum)</b>	



54	<b>Irrigation Schedule as per field layout</b>										
	<b>OPERATION SCHEDULE</b>										
	Shift No.	Main Line	Type	CV	Area(m <sup>2</sup> )	Valve Area (Ac)	Valve Flow (cu.m/h)	Shift Area (Ac)	Shift Flow (cu.m/h)	Operating Time (Hr)	
	1	Main Line -1	Rain Shelter-1	CV1	193	0.05	1.61	0.10	3.38	0.96	
			Tunnel-1	CV2	213	0.05	1.78				
	2		Tunnel-2	CV3	213	0.05	1.78	0.11	3.55	0.96	
			Tunnel-3	CV4	213	0.05	1.78				
	3		Main Line - 2	Rain Shelter-2	CV5	193	0.05	1.61	0.10	3.38	0.96
				Tunnel-4	CV6	213	0.05	1.78			
	4	Tunnel-5		CV7	213	0.05	1.78	0.11	3.55	0.96	
		Tunnel-6		CV8	213	0.05	1.78				
<b>Total</b>				<b>1664</b>	<b>0.41</b>	<b>13.87</b>	<b>0.41</b>	<b>13.87</b>	<b>3.84</b>		
55	<b>Irrigation data as per design</b>										
	<b>IRRIGATION DATA</b>										
	Plantaion Type					New					
	Crop					Mixed					
	Emitter type					Pressure Compensating					
	Irrigation System					Inline					
	Distance between Rows m					0.60					
	Distance between Plants m					0.40					
	No of plants					6934					
	No of Emitters per lateral					1.00					
	Emitter spacing per lateral m					0.40					
	No. of laterals per Row					1					
	Lateral spacing m					0.60					
	Emitter Discharge l/h					2.0					
	Application rate mm/h					8.33					
	Evaporation Equivalent mm/day					8.0					
	No. of Shifts					4					
	Application volume m <sup>3</sup> /ha					80					
	Duration of one shift hr					0.96					
	Total operational time hrs					3.84					
	Max.Disch. Variation %					0.0					
	Net Area Ac					0.41					
	Area in m <sup>2</sup>					1664					
	Flow Rate CM/H/AC					33.74					
	Water Source					Tank					
	Total Area, Ac					0.41					
	Total Q - (Cum / hr)					13.9					
Flow per Shift ( Cum / hr)					3.5						
Area per Shift (Ac)					0.10						

**Terms and condition to be included -**

1. If SATCARD reports any issues during the first 3 years after installation to the vendor via email the vendor is obliged to rectify the problem within 72 hours of notification. In cases where the replacement of parts is required, the vendor must complete the replacement within 1 week. Failure to meet these timeframes will result in penalties, the amount of which will be determined by SATCARD authorities
2. The bidder or any one partner of Joint Venture should be a designer and manufacturing company of the drip irrigation systems in India and have production facility to produce the pressure compensating drip lines as per BIS standards.
3. The intending Bidder / Firm/ Company /Joint Venture should have satisfactorily executed work of Drip Irrigation & Automation system during the last FIVE YEARS (2018-19 to 2022-23). The certificate should be obtained duly signed from an officer not below the rank of Executive Engineer or equivalent authority and counter signed by the immediate higher authority.
4. Drip & Automation material should be from the same supplier/Company.
5. All the work including the fabrication works should be done by the same supplier/company
6. The execution of work should be completed within 3 months from the date of awarding the contract.



**UNDERTAKING BY THE BIDDER**  
(TO BE SUBMITTED ONLY THROUGH ONLINE MODE IN APPROPRIATE FORMAT)

We hereby 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 DEVIATION 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.**

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 letterhead of the quoting firm 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).**

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 letterhead of the quoting firm 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  
Ahalia Integrated Campus, Kozhipara,  
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.

<b>Tick ( ✓ ) and Fill the Appropriate Category</b>	
<input type="checkbox"/>	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 “ <b>Class-I Local Supplier</b> ” category.
<input type="checkbox"/>	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 “ <b>Class-II Local Supplier</b> ” category.
<input type="checkbox"/>	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 “ <b>Non-Local Supplier</b> ” 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.]