



KERALA AGRICULTURAL UNIVERSITY
Regional Agricultural Research Station (Southern Zone)
College of Agriculture, Vellayani, Trivandrum 695 522.

No. RARS /SZ(6)/2034/18

Date:18.09.2021

E-TENDER NOTICE

E- tenders are invited for the supply and installation of following equipments for Regional Agricultural Research Station(Southern Zone), College of Agriculture, Vellayani, as per the technical specifications and the terms and conditions below:

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| 1. Vertical Autoclave (digital) | : 2 numbers |
| 2. Vertical laminar air flow chamber | : 1 number |
| 3. Serological water bath (digital) | : 1 number |
| 4. High precision weighing balance with color TFT touch screen | : 1 number |
| 5. Hot air oven (side heated & digital) | : 1 number |
| 6. Refrigerated incubator cum orbital shaker with LED display | : 1 number |
| 7. BOD incubator (digital) | : 1 number |
| 8. -20°C Freezer (digital) | : 1 number |

Note: Bid for all equipments by a single bidder is not mandatory. Bidders who can supply only some of equipments shall also be entertained.

Specifications:

Sl. No.	Equipment	Specifications
1	Vertical Autoclave (Digital) – 2 number	Maximum pressure: 15 psi, Pressure Indicator : Bourdon tube pressure gauge, Controller : Digital temperature indicator cum timer with audio alarm, Valves: Safety Valve, Steam Release Valve, Drain: Drain tap provided at the bottom, Lid lifting: Foot lifting mechanism, Inner chamber: SS 304, 1.6 mm, Outer Chamber: SS 304, 1.2 mm, Gasket: Silicone Gasket, Basket: Perforated Stainless Steel, Supply : 220-230 volts AC, Chamber dimensions: 450mm dia x 600 mm depth or more, Volume: 95 lit or more, Watts 4 KW, Low water level cut off systems.
2	Vertical laminar air flow chamber – 1 number	Main Filter: MINIPLEAT HEPA, Particle retention Size: up to 0.3 Micron, Efficiency: 99.99%; Pre Filter : Particle retention size: up to 10 micron, Efficiency: 98%, Work Table : SS 304, 1 mm Thick, Cabinet: SS 304, 1 mm Thick, UV Light : UV Lamp of suitable length, Illumination : LED Lamp of suitable length, Switches : ON / OFF For Blower, UV, FL,

		Pressure Indicator : Inclined Liquid Column Manometer, Pet Cock : SS petcock for air / gas, Front Door : Single piece polycarbonate sheet sliding upwards, Stand : Square pipe mounting stand with leveling jacks, Supply : 220- 230 Volts, 50 Hz Single Phase AC, Work area: : 915 mm x 610 mm x 610 mm or 1220 mm x 610 mm x 610 mm (W x D x H), External dimension or 1015 mm x 710 mm x 2005 mm or 1320 mm x 710 mm x 2005 mm, Double filtered air blows in laminar flow to the worktable at designed velocity of 90 ft/min +/-20%. Noise level Less than 65 db at work area, and Vibration:-0.00005 cm of work table, with supporting 2 KV voltage stabilizer of ISO certified - input 170 volts to 260 volts, output 220 volts to 240 volts.
3	Serological water bath – 1 number	Digital, Temperature range: Ambient +5°C to 60°C, Temperature Accuracy: ± 1°C, Temperature Controller: Digital Microprocessor / Thermostat, Inner Chamber: SS 304, 0.6 mm Thick , Cabinet : Powder Coated, supply : 220-230 volts AC, Bath dimension: 450 mm x 300 mm x175 mm or 600 mm x 300 mm x175 mm (W x D x H); Volume: 23 or 31 litres, test tube rack capacity: 6 or 8, Watts: 2KW.
4	High precision weighing balance – 1 number	Capacity: 42g/110 g; Readability: 0.00001g (10 micro gram), Pan size: 80 mm, constant accuracy and precise results over the entire weighing range, Ergo doors, easy cleaning, QuikLock draft Shield, a variety of built-in functions, Fully automatic time and temperature controlled internal adjustment compensating changes in temperature, A Lifetime of Reliable Results, The full metal body, Resistant to harsh chemicals, e.g. acetone, 7" extra-large color TFT touch screen features an intuitive interface that helps render the data into graphics, with supporting UPS 600 VA.
5	Hot air oven (side heated – digital) – 1 number	Temperature range: 50°C to 250°C, Temperature Accuracy: ± 1°C, Temperature Controller: Digital Microprocessor, Heating: Side Heated, Air Circulation: Blower, Inner Chamber: SS 304, 0.6 mm Thick Outer Chamber: SS 304, 1mm Thick, Door Gasket : Silicone, Trays : Perforated SS Tray, Adjustable, Supply : 220-230 volts AC, Internal dimensions: 450 mm x 450 mm x 450 mm (W x D x H mm), Capacity: 91 litres, Number of trays: 2, Power: 2 KW.
6	Refrigerated incubator cum orbital shaker – 1 number	Bench top model incubator cum shaker, temperature range - 4 to 80°C, shaking speed – 15-500 rpm, shaking type – orbital (dia 20 mm), speed accuracy- ± 1 rpm, temperature accuracy - ± 1°C, Microprocessor controlled with programmed speed, time and temperature, LED display simultaneously to view temperature, time and speed, automatic restart during power failures, high and low temperature safety cut offs, CFC free refrigeration system, noiseless and vibration free, parts should have special protection against under and over voltage, stainless steel interior and anti corrosive exterior, Illumination- LED, unit should have two shelves or/ and facility for incubation of plates and other samples while in shaking motion, clamps for volumetric flasks and or test tubes, inner chamber should be moisture proof, CE , UL certifications, with supporting 3 KVA servo

		voltage stabilizer of ISO certified - input 170 volts to 260 volts, output 220 volts to 240 volts.
7	BOD incubator – 1 number	Temperature range: 5-60°C, Accuracy- +/-0.5°C, Microprocessor digital temperature controller cum indicator, Inner chamber- Stainless steel 6 Cft (150 l), 3 shelves, Chamber illumination with fluorescent lamp, UV lamp for sterilizing work area, 0-24 h cyclic timer with supporting voltage 1 KVA stabilizer of ISO certified - input 170 volts to 260 volts, output 220 volts to 240 volts.
8	-20°C Freezer – 1 number	Minimum temperature- -20°C, (Optional - low Temperature up to - 40°C (in AC room), Insulation (CFC free polyurethane foam): 70 mm minimum for Body and 80 mm for Door, Constructed of double walls - the exterior is made of sheet steel while the interior of stainless steel having PUF insulation to minimize heat loss, Digital indicator – cum –controller, Temperature control- Microprocessor based keeping hard copy of temperature, time and date, Door open and power failure alarms, Internal Body Material: Stainless Steel– 316 grade, External Body Material: Powder Coated/, Stainless Steel – 304 grade, capacity - 200 l, with supporting servo voltage stabilizer 3KVA of ISO certified - input 170 volts to 260 volts, output 220 volts to 240 volts.

Instructions to the bidders

- Bid documents including the Bill of Quantities (BoQ) can be downloaded free of cost from the e- Government Procurement (e-GP) Website www.etenders.kerala.gov.in.
- All bid documents are to be submitted online only and in the designated cover(s)/ envelope(s) on above website.
- Price Bid shall be submitted only through online.
 - Rates quoted should be valid for a minimum period of 3 months from the date of opening the e-tender.
 - Tenders not stipulating period of firmness of rates and with price variation clause and/or subject to prior sale condition are liable to be rejected.
 - The equipment should be delivered and installed at the expenses of the successful bidder.
 - Rate quoted should be inclusive of all charges such as packing, forwarding, freight, loading/unloading/handling or installation charges and Government duties leviable, if any.
 - The supplier has to make his own arrangement for the ordinary / special tools, machinery, and other consumables required for successful completion of installation and testing.
- **Payment of fee:** A Tender submission fee & EMD shall be remitted online during the time of tender submission.

- **Scanned Documents to be submitted online:**
 - Company Data sheets, Brochures & other documents such as relevant technical literatures, drawings, pamphlets containing all the relevant technical specifications of the equipment duly signed by the bidder on each page.
 - Tender form: Each and every pages of the tender form should be attested after reading the conditions provided.
 - Duly filled and signed preliminary agreement of the bid executed in Kerala stamp paper worth Rs.200/-
 - Bids received online without the scanned copy of preliminary agreement will not be considered.
 - Users list of the equipment, if any.
 - Copy of up-to-date GST registration certificate & PAN of the bidder
 - Supporting document regarding service support
 - Authorization certificate if the bidder is a dealer
 - Valid EMD exemption certificate from the Store Purchase Department, Govt. of Kerala, if the firm is exempted from payment of EMD.
 - Undertaking to the effect that the bidder is not Debarred/ Blacklisted or Banned from any University/ Government Institute / PSU.
 - Purchase Order and performance certificate of the quoted model of Equipment from three reputed customers, preferably University/ Government Institute / PSU, if any.
- **Submission of hard copy:** After the online submission of bids, attested hard copies of bid documents and certificates submitted online should be sent to “**ASSOCIATE DIRECTOR OF RESEARCH, RARS(SZ), College of Agriculture, Vellayani, Pin:695522**” in sealed envelope by registered post/speed post before the date and time of opening of technical bid. Otherwise tender will be strictly rejected without any notice.
 - The hard copies should be the original of the same document uploaded in the e - tender website. Otherwise the tender may be rejected.
 - Manual submission alone of the tender documents shall not be entertained.
 - Late tenders will not be accepted.
 - The sealed envelope containing the hard copy should bear the superscription “**Tender on Supply of Equipments for Advanced Referral Plant Health Clinic**”.
 - The tender notice No. and date of opening of tender should also be mentioned on the top of the envelope.
- Additional Documents to be submitted along with hard copy
 - Copy of remittance towards bid submission fee and EMD.
 - Copy of confirmation of bid submission in the e-tenders portal.
- In case, the article is sent by railway; the railway receipt should be sent separately, and not along with the tender since the tender will be opened only on the appointed day and demurrage will have to be paid if the railway parcels are not cleared in time.
- As per DSIR registration, the University is eligible for relaxation in GST as per Notification No.45/2017 Central Tax (Rate) dated 14.11.17 & Notification No.47/2017 Integrated Tax (Rate) dated 14.11.17. Necessary documents for availing GST exemption will be provided to the successful bidder.

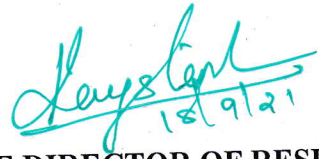
- **Quoting of equipment:** Only the best model fitting the specification must be quoted.
 - Vendors if quoted for lower end model while the same manufacturer is having better model meeting the above tender specifications, the technical committee shall take decision to disqualify.
 - The products should be nationally / internationally branded and CE certified.
 - The bids should be sent only for equipment model available in the market and supplied to a number of customers. Tenders with market standing with proven quality and durability only will be entertained.
- **Service:** The firms or companies quoting the price should have service personals or centers or service support based in Kerala should have quote from manufacturer for the quoted model.
- The maximum period required for delivery and installation of the article should be mentioned.
- Details of availability of the spares for the entire instrument for a period of at least 10 years after the model of equipment supplied has been phased out and for frequently required spares should be specified.
- If any license or permit is required, tenderers must specify in their tender and also state the authority to whom application is to be made.
- Details required for e-payment (Details of bank account having core banking facility and e-mail address of the bidder) shall be furnished along with the tender.
 - Payments will be made only after the supply is actually verified and taken to stock.
- **Warranty & AMC:** The equipments should have a minimum of two year of manufacturer warranty and three year of AMC from the date of complete installation and not from the date of delivery.
 - Details of warranty from manufacturer, extended warranty if any, rate for extended warranty, rate for annual maintenance cost after warranty period etc., should be mentioned in the hard copy of bid document.
 - If the Supplier, having been notified, fails to remedy the defect(s) within one to two weeks time, then warranty will be extended to the extent of instrument lying idle without repair.
 - All parts of the instrument, accessories, and supporting instruments should be covered under the warranty.
- Tenders not accompanied by these details will be rejected
- Associate Director of Research, RARS(SZ), College of Agriculture, Vellayani shall have no obligation to convey reason for rejection of any bid. It shall be open for Associate Director of Research, Vellayani to reject even the lowest bidder in the interest of the University and no reason need be given therefore.
- The undersigned shall not be responsible for any failure, malfunction or breakdown of the electronic system while downloading or uploading the documents by the Bidder during the e-procurement process.
- On receipt of purchase order, the supplier shall execute another agreement at own cost and furnish a Performance Security of 5% of the cost valid up to 60 days after the date of completion of performance obligations including warranty obligations. The format of the agreement can be downloaded from the above website.
- Withdrawal from the tender after it is accepted or failure to supply within a specified time or according to specifications will entail cancellation of the order.

- All subsequent Government orders connected to tenders and any revision in the rates of taxes would also be applicable to this tender.
- In addition to these all other General Conditions annexed in the Store Purchase Manual of Government of Kerala are also applicable to this tender.

Tender details	
Tender inviting Authority	Associate Director of Research, RARS(SZ), College of Agriculture, Vellayani
Location of supply and installation	Department of Plant Pathology, College of Agriculture, Vellayani, Thiruvananthapuram – 695 522
Date of Publication of Tender	18.09.2021
Last Date and Time of Receipt of Tenders	02.10.2021, 5.00 PM
Date and Time of Opening of Bid	04.10.2021, 10.00 AM <ul style="list-style-type: none"> • Tenders will be opened in the presence of such of the tenderers or their authorized representatives. • If the tender opening date happens to be on a holiday or non-working day due to any other valid reason, the tender opening process will be done on the next working day at same time and place.
Earnest money deposit (EMD)	Rs.10,700/-
Tender submission fee	Rs.1600/-
Period of supply and installation	Within two weeks from date of purchase order
Mode of submission of Bid	Online through the website www.etenders.kerala.gov.in only
Performance Security	5% of the quoted amount
Submission of performance security	Within 21 days from issue of purchase order

Further details on the tender process can be had from the office of Associate Director of Research, RARS(SZ), Vellayani during the office hours between 10.00 am and 5.00 pm (9496276991; 8848083653).




ASSOCIATE DIRECTOR OF RESEARCH
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