



KERALA AGRICULTURAL UNIVERSITY

COLLEGE OF AGRICULTURE

Vellayani, Thiruvananthapuram – 695 522, Kerala
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No. SP(1)/12935/2022

Date : 02.03.2023

E-TENDER NOTICE

E-Tenders are invited for the supply and installation of various Laboratory Equipments to the Department of Molecular Biology and Biotechnology, College of Agriculture, Vellayani, as per the specifications and the terms and conditions below.

Laboratory Equipments with Specifications

Sl.No.	Name of the Equipment with Specifications	Quantity
1	<p><u>Thermal Cycler</u></p> <p>Sample capacity for 96×0.2ml tubes, 0.2ml tube strips or 1×96 well plate, Peltier heating and cooling. True gradient capability with in-built algorithm for the gradient, Identical hold times for all rows of a gradient. Temperature differential range of 1-25⁰C. Touch screen interface in high resolution for easy programming. Running reaction volumes from 5-100ul. Maximum ramp rate of 4⁰C/second with an average ramp rate of 2.5⁰C. Should have a temperature range of 4 to 100⁰C; a gradient range of 30-100⁰C and and temperature accuracy and uniformity ±0.5⁰C. Touch Screen, Memory: 500 or more programs, further expansion through a USB Flash drive (optional). Block and calculated temperature control modes. The software should have exportable run logs and system error logs. Boot up time-not more than I min and quiet in operation. Power save mode with suitable UPS. Service support in Kerala. UPS: 1.5 KVA, Power backup for 2hrs. Minimum warranty: 3 years</p>	1 no.
2	<p><u>Incubator shaker</u></p> <p>Optical shaking mechanism, 6 cft capacity Temperature range +5 to 60⁰C, Speed of shaking 50 to 200 rpm, Capacity 120 litre, Platform size 45×45 cm. No of flasks 16 of 250ml capacity, Digital display, accuracy ± 5 ⁰C. Speed of shaking controlled by digital timer and RPM indicator. Shaking platform: thick stainless steel sheet with size adjustable clamps to hold the conical flasks Minimum warranty: 3 years</p>	1 no.

3	<p><u>Electronic Balance</u></p> <p>Top loading model, Three –digit type Capacity : 220 gm, Minimum Display: 0.001g Pan size: 100×100mm. Repeatability Std. Deviation: ≤ 0.001 gms Linearity: ± 0.002g Response Time approx.: 1.0-1.2 secs., Ambient temperature: 5-40 Deg. C/41-104F, Temp. coefficient of sensitivity 15-35⁰C: ± 3ppm/⁰C. Dimensions approx.: 170W ×240D×75H mm, Weight approx.: 2.2kg, Power Req.: AC Adapter; 90V-264V, -15% \pm10% 50/60Hz, Display: LCD Minimum warranty: 1 year</p>	1 no.
4	<p><u>Horizontal electrophoresis system</u> <u>Medium unit</u></p> <p>Two 1.5 mm fixed height combs for 15 and 20 wells, 15×10 cm UV-transparent tray with get caster and casting gates, Leakproof buffer tank for accommodating buffer volume 500 to 600 ml, a safety lid with cables, and a levelling bubble. Electrodes should be easily removed for simplified cleaning. Properly labelled arrow on the side of the base for indicating the direction of the run. Color- coded, labeled electrodes and labeled base for correct positioning of the lid on the base. Longer tab for easy lid removal and correct lid positioning, clear plastic construction for easy sample visualization Minimum warranty: 2 years</p>	1 no.
5	<p><u>Horizontal electrophoresis system</u> <u>Mini unit</u></p> <p>Combs: 8 well and 15 wells, 7×10cm UV Transparent tray with get caster and casting gates. Leakproof system, Buffer tank for accommodating buffer volume 250 to 300 ml, a safety lid with cables, and a levelling bubble. Electrodes should be easily removable for simplified cleaning. Properly labelled arrow on the side of the base for indicating the direction of the run. Color-coded, labelled electrodes and labelled base for correct positioning of the lid on the base. Longer tab for easy lid removal and correct lid positioning Clear plastic construction for easy sample visualization With suitable power packs Minimum warranty: 2 years</p>	1 no.
6	<p><u>-20⁰ C Deep freezer</u></p> <p>Double walled, the exterior made of sheet steel, interior of stainless steel having PUF insulation to minimize heat loss. Volume: 250 to 300L, Minimum Temperature: -20⁰ C Stainless steel inner chamber with efficient PUF insulation having digital indicator-cum-controller, Stainless steel outer body and inner chamber of SS 316, Microprocessor based temperature control system with servo voltage stabilizers of input 170 volts to 260 volts, output 220 volts to 240 volts. C-certified Minimum warranty: 1 year</p>	1 no.
7	<p><u>Refrigerated Centrifuge</u></p> <p>Microprocessor controlled centrifuge with variable speed and time setting having options for rotors of 24×1.5ml/2.0 ml and 96 well plate rotor. Speed range: 500-15000rpm(100 rpm steps) Refrigeration temperature: Upto -10⁰C, Imbalance detection and lid</p>	1 no.

	lock safety feature, large digital display (speed & Time), Should have soft braking function, Auto rotor detection feature, Acceleration time: 15s, Deceleration time: 15s, Max. Capacity: 24×1.5ml/2.0 ml and temperature control @ 4 ⁰ C±2 ⁰ C. Time for cooling from 20 ⁰ C to 4 ⁰ C:≤15 min Timer: 30 sec to 999 mins, Brushless DC motor Minimum warranty: 1 year	
8	<u>UV-VIS spectrophotometer</u> High performance compact split beam spectrophotometer with a fixed 2nm spectral band width. Wavelength Range 190-1100nm Optical system : Split beam, Wavelength Accuracy ±0.5nm, Wavelength Reproducibility ≤ 0.3nm Spectral Bandwidth 2nm, Silicon photo diode detector Light Source tungsten Halogen & Deuterium lamps Graphic LCD Display, Quartz cell pairs (2 pairs) included 1KVA UPS with internal batteries included Printer, USB port with software support included Minimum warranty: 1 year	1 no.
9	<u>pH meter</u> pH range-2-16pH with resolution accuracy 0.01 pH ± 0.01pH 0.01 ORP Range ± 2000 mV, Resolution/Accuracy 0.1(± 199.9mV)/1mV(beyond), ± 0.2(±199.9 mV)/± 2mV(beyond), Temp Range 0.0 to 100.00 C (32.0 to 212.00F), Double junction glass pH electrode, ATC Probe, No. of pH calibration points: 6 points, Custom Built –in Electrode Arm, Electrode: 6 months Minimum warranty: 3 years	1 no.
10	<u>Laboratory Refrigerator</u> Lab type, Temp 4 degree C, Vertical, 300L, with shelves, single door(glass), stabilizer.	1 no.

INSTRUCTIONS TO 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.

Bidder should be a reputed Original Equipment Manufacturer (OEM) or Authorized dealer of OEM, who is having an Authorization Certificate from the OEM to participate in the tender. Certificate from the OEM for sales and service to be produced.

Should have a factory trained service engineer available in Kerala. (For the quoted model)

1. Price Bid shall be submitted only through online.
2. Rates quoted should be valid for a minimum period of 3 months from the date of opening the e-tender.
3. 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.
4. The equipment should be delivered and installed at the expenses of the successful bidder.
5. 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.
6. 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:** Tender submission fee & EMD shall be remitted online during the time of tender submission.
- **Scanned Documents to be submitted online:**
 1. 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.
 2. Tender form: Each and every pages of the tender form should be attested after reading the conditions provided.
 3. Duly filled and signed preliminary agreement of the bid executed in Kerala stamp paper worth Rs.200/-.
 4. Bids received online without the scanned copy of preliminary agreement will not be considered.
 5. Users list of the equipment, if any.
 6. Copy of up-to-date GST registration certificate & PAN of the bidder
 7. Supporting document regarding service support
 8. Authorization certificate if the bidder is a dealer
 9. Valid EMD exemption certificate from the Store Purchase Department, Govt. of Kerala, if the firm is exempted from payment of EMD.
 10. Undertaking to the effect that the bidder is not Debarred/ Blacklisted or Banned from any University/ Government Institute / PSU.
 11. Purchase Order and performance certificate of the quoted model of Equipment from three reputed customers, preferably University/ Government Institute/ PSU, if any.

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.
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- **Service:** The firms or companies bidder should ensure on site service support for the equipment.
 - The maximum period required for delivery and installation of the article should be mentioned.
 - Availability of the spares for the entire instrument for a period of at least 10 years should be ensured.
 - If any license or permit is required, Bidders 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: As mentioned in the specification.**

1. Details of extended warranty if any, rate for extended warranty, rate for annual maintenance cost after warranty period etc. should be mentioned in the bid document.
2. If the Supplier, having been notified, fails to rectify the defect(s) within one to two week's time, the warranty will be extended to the extent of instrument lying idle without repair.
3. All parts of the instrument, accessories, and supporting instruments should be covered under the warranty.
 - Bidders not accompanied by these details will be rejected.
 - Dean of faculty, College of Agriculture, Vellayani shall have no obligation to convey reason for rejection of any bid. It shall be open for Dean of faculty, College of Agriculture, Vellayani to reject even the lowest bidder in the interest of the University and no reason need be given thereof.
 - 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 an agreement in Kerala stamp over worth Rs.200/- at own cost and furnish a Performance Security of 5% of the cost.
 - 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 and attract legal procedures as per the agreement.
 - 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	Dean of Faculty, College of Agriculture, Vellayani
Location of supply and installation	Department of Molecular Biology and Biotechnology ,College of Agriculture, Vellayani, Thiruvananthapuram – 695 522
Date of Publication of Tender	03-03-2023 4.00 PM
Last Date and Time of Receipt of Tenders	19-03-2023 3.00 PM
Date and Time of Opening of Bid	20-03-2023 3.30 PM 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. 15,900/-
Tender submission fee	Rs. 2,700/- (inclusive of GST)
Validity Period of Bid	90 days.
Period of supply and installation	Within three 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 7 days from date of issue of purchase order

Further details on the tender process can be had from the College of Agriculture, Vellayani during the office hours between 10.00 am and 5.00 pm. (Mob:9847067220).

Sd/-
Roy Stephen
DEAN OF FACULTY