



**KERALA AGRICULTURAL UNIVERSITY
FARMING SYSTEMS RESEARCH STATION
SADANANDAPURAM, KOTTARAKARA**

No. FS(3)1553/21 (1)

Date: 28 .02.2022

TENDER NOTICE

Sealed competitive tenders are invited for the supply of equipments -“Hot air oven side heated digital, Muffle furnace, Incubator-BOD, Serological Water bath, Single distillation unit with auto cut-off , Vertical Laminar Air Flow Chamber” (Specification attached)

Sl. No.	Equipment	Quantity required (No.)	Cost of tender form (Rs.)
1	Hot air oven side heated digital	1	0.2% of the cost of tender rounded to the nearest multiple of 100, subject to a minimum of 400/- and maximum 1500/- + GST as Applicable
2.	Muffle furnace	1	
3.	Incubator-BOD	1	
4.	Serological Water bath	1	
5	Single distillation unit with auto cut-off	1	
6	Vertical Laminar Air Flow Chamber	1	

Sl. No.	Item / instrument / equipment	Specifications
1	Hot air oven side heated digital	<ul style="list-style-type: none">• Temperature range : 50°C to 250°C• Temperature Accuracy : $\pm 1^\circ\text{C}$• Temperature Controller : Digital Microprocessor• Heating : Side Heated• Air Circulation : Blower• Inner Chamber : SS 304, 0.6 mm thick• Door Gasket : Silicone• Trays : Perforated SS Tray, Adjustable• Supply : 220-230 volts AC• Internal diameter - 450 x 450 x 450 mm• Capacity: 91 l; 2 trays, 1500 watts• 2 years warranty
2	Muffle furnace	<ul style="list-style-type: none">• Light weight construction• Insulated with cedramic wool to reduce heat loss and weight• Maximum temp. 1000°C• Working temp. 900°C,



		<ul style="list-style-type: none"> Controlled by Energy Regulator, Fitted with Thermo – couple , pyrometer analogue type, thermal fuse Internal dimension 20 x 20 x 30 cm, 4.0 KW 2 years warranty
3	Incubator-BOD	<ul style="list-style-type: none"> 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 1KVA stabilizer of ISO certified Input 170 volts to 260 volts, Output 220 volts to 240 volts. 2 years warranty
4	Serological Water bath	<ul style="list-style-type: none"> 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: 220-230volts AC, Bath dimension: 600mmx300mmx175mm(WxDxH) Volume: 3llitres Test tube rack capacity: 8, Watts: 2KW 2 years warranty
5	Single distillation unit with auto cut-off	<ul style="list-style-type: none"> Water ouput:1.5LPH, Dimensions (W X D X H):(650 X 255X 460) mm 2 years warranty
6	Vertical Laminar Air Flow Chamber	<ul style="list-style-type: none"> Main Filter: MINIPLEAT HEPA or ULPA Particle retention Size: up to 0.3 or 0.1 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 worktable, with supporting 2 KV voltage stabilizer of ISO certified - input 170 volts to 260 volts output 220 volts to 240 volts
- Quote separately for Work area: : 915 mm x 610 mm x 610 mm with External dimension 1015 mm x 710 mm x 2005 mm or Work area:1220 mm x 610 mm x 610 mm (W x D x H) with External dimension 1320 mm x 710 mm x 2005 mm.

Tender forms can be down loaded from KAU website (www.kau.edu/tenders). On submitting the tender form, the cost of the tender form as mentioned above may be drawn by DD in favour of **“Professor and Head , FSRS Sadanandapuram payable at State Bank of India, Pulamon Junction, Kottarakkara.**

EMD @ 1% of the quoted amount should be as separate DD drawn at the same address along with an agreement executed in Kerala stamp paper worth Rs. 100/- should be enclosed with the tender. The name of the equipments for which the rate is quoted, notification number and date of opening of tender should be written on the top of the envelope. Sealed tenders addressed to **“Professor and Head, FSRS Sadanandapuram, Sadanandapuram P.O., Kottarakkara – 691 531”** should reach this office on or before **11.30 pm on 14/03/2022 (Monday) and will be opened at 12.00 pm** on the same day in the presence of such of the tenderers or their authorized representatives. The tenders received after the stipulated date and time will not be accepted in any circumstances. All terms and conditions prescribed for Government tenders as amended from time to time are applicable in this case also. The under signed has the right to accept or reject any or all tenders without assigning any reason thereof.

Further details can be had from the under signed during the office hours between 10.00 am and 5.00 pm (**0474 2663535, 9249712194**) and also through KAU web site.

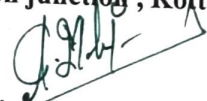
Terms and conditions:

- * 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.
- * Rate should be quoted separately each equipment .
- * The items should be delivered to **“FSRS Sadanandapuram”**
- * The products should be nationally / internationally branded and ISI / CE certified.

- * 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 and the supporting document should be submitted.
- * The firms or companies quoting the price should submit the brochure for the model from the manufacturer including web link and the country of origin of the equipments.
- * The price quoted should be inclusive of all taxes, costs for clearance, transportations, loading and unloading etc.
- * The format of the agreement can be downloaded from the above website given in item 1. Firms who are exempted from payment of EMD should furnish copy of the currently valid certificate from the Store Purchase Department, Govt. of Kerala.
- * All Taxes, duty, freight etc. as applicable may be specified in the tender.
- * Rates quoted should be valid for a minimum period of 180 days from the date of opening the tender.
- * Users list of the equipments are to be enclosed while submitting the tender
- * 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.
- * 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.
- * Delivery: Within **two weeks** from the date of receipt of purchase order.
- * The equipment should be delivered at the **"Professor and Head , FSRs Sadanandapuram, Sadanandapuram.P.O, Kottarakkara – 691 531"** at your own expenses and any packing, forwarding, freight, loading/unloading/handling or installation charges will be met by the firm.

On receipt of purchase order from this office, the tenderer should execute another agreement in Kerala Stamp Paper worth Rs.100/- (Rupees one hundred only) and furnish a security deposit of 5% of the cost of the equipments quoted in the form of term deposit / bank guarantee / demand draft drawn in favour of **"Professor and Head , FSRs Sadanandapuram payable at State Bank of India, Pulamon junction , Kottarakkara.**




Administrative Assistant
For Professor and Head
Mohammed Faizal. A
 Administrative Assistant
 Farming Systems Research Station
 KAU, Sadanandapuram, Kottarakkara