



KERALA AGRICULTURAL UNIVERSITY

College of Climate Change and Environmental Science,
Vellanikkara, Thrissur Dist. Pin:680656
Phone: 0487-2438692, E-mail:ccces@kau.in

No. CCCES/146/2025 – A2 (NT -vi)

Dtd.25.07.2025

TENDER NOTICE

Sealed tenders are invited from competent firms for the supply and installation of the following items at College of Climate Change and Environmental Science with specifications as detailed below. The tender will be accepted up to **05.08.2025 @3.00 PM**. The tenders received after the stipulated time will not be considered at any circumstances. The received tenders will be opened at 05.08.2025 @3.30 PM

| SI N o | Item | Quantity |
|--------------|--|----------|
| 1 | Digital Bomb calorimeter | 1 |
| | Bomb Capacity : 300 ml Pressure Test : Each bomb is tested at a pressure of 300 kg/cm ² for 10 minutes MOC (Bomb) : Bomb body & lid are made of corrosion resistant Stainless Steel Alloy. MOC (Crucible) : Made of corrosion resistant Stainless Steel Alloy MOC (Water Jacket) : Static and made from Stainless Steel Regulating Valve : Fine Control regulator valve with Pressure Gauge Safety Valve : Safety relief valve for user safety comes as a standard feature Design & Standard : Designed as per fundamental Standards : BS-1016 - Part 5 (1967), BIS-1350 - Part 2 and IP - 12/63T Operating Time Per Test : Main Testing Period takes maximum of 15-20 minutes / test Oxygen Filling : Through a high pressure Schrader Valve Testing Temp. Range : Operating range from 5°C to 40°C Temperature Resolution : Temperature Scanning Resolution of 0.01°C R.S.D : 2-3% Range : Measurement Range : 1000 - 10000 cal/gm Gas Filling : Push - n - fit type filling system for user ease Digital Beckman Thermometer : Microprocessor Based Digital Beckman Thermometer directly indicating rise in temperature Oxygen Cylinder (Option) : Oxygen cylinder 9-47 Ltrs capacity complete with dual stage regulator | |
| 2 | Soil hydrometer with hydrometer jar: | 1 |
| | Construction: Stainless steel tank; enamel finish exterior. Jar Support: Stainless steel grid. Temperature Range: Ambient - 60°C Sensitivity: $\pm 0.2^{\circ}\text{C}$ at 20°C (68°F). Circulating System: Drive pump with motor. Heating System: Immersion type; 700-watt heater in stainless steel mixing chamber. Plumbing: Overflow; Drain; Inflow and outflow for cooling system. Inside Dimensions: 950x 200 x400 mm Outside Dimensions: 1,200 x 300 x 500 mm | |

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|----------------------------------|--|------------------------|----------|---------|---------------------|--------------|--------------------|--------------------|--------|--------------------|--------|-------------------|--------|--------|--------|-----------------|-------|-----------------|----------------|---------------------|---------|-----------------|------|----------------------------------|------|--|
| 3 | Ice Flaker | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | <ul style="list-style-type: none">• Ice Making Capacity-20Kg/24Hr• Ice Storage Capacity -10Kg• Input Current (w) : 280• Ambient temperature : 10-25°C• Water Temperature : 10°C• Refrigeration type: Air cooling• Tank Shell : Plastic• Compressor/Refrigerant : CFC-Free/R134a• Power Supply : AC220V±10%,50/60HZ; 110V±10%,60FIZ• Standard Accessories : Water Inlet Pipe 1, Drainage Pipe 1, Ice Spoon 1 <p>1.High-quality stainless steel is used for outer body and they are anti-corrosive and durable, and the all-in-one independent structure makes them simple and compact and space-saving. Bin is made of good quality plastic.</p> <p>2. Their boxes are protected with fluorine-free foam thermal cover featuring good insulation effect. Their internal bladders are of fluorine-free bacterial inhibitory-type. They are both energy saving and environmental friendly.</p> <p>3. High quality and efficient use of fluorine-free R134a compressors, parts and components have passed relevant safety certifications, and they are safe and reliable.</p> <p>4. They have ice full display, water deficiency display, overcooling protection display and malfunction warning display, etc. for shutdown protection. The stop automatically in case of ice full or water deficiency and start automatically when power or water supply is resumed.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Analytical balance | 1 | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><td>Temperature Range (°C)</td><td>15 to 25</td></tr><tr><td>Display</td><td>LCD with back light</td></tr><tr><td>Power Supply</td><td>AC 220V / 50-60 Hz</td></tr><tr><td>Dimension (Height)</td><td>355 mm</td></tr><tr><td>Dimension (Length)</td><td>360 mm</td></tr><tr><td>Dimension (Width)</td><td>260 mm</td></tr><tr><td>Weight</td><td>3.5 kg</td></tr><tr><td>Max. (Capacity)</td><td>220 g</td></tr><tr><td>Readability (D)</td><td>0.001 g (1 mg)</td></tr><tr><td>Repeatability (+/-)</td><td>0.001 g</td></tr><tr><td>Min. (Capacity)</td><td>1 mg</td></tr><tr><td>Verification Scale Intervals (e)</td><td>1 mg</td></tr></table> | Temperature Range (°C) | 15 to 25 | Display | LCD with back light | Power Supply | AC 220V / 50-60 Hz | Dimension (Height) | 355 mm | Dimension (Length) | 360 mm | Dimension (Width) | 260 mm | Weight | 3.5 kg | Max. (Capacity) | 220 g | Readability (D) | 0.001 g (1 mg) | Repeatability (+/-) | 0.001 g | Min. (Capacity) | 1 mg | Verification Scale Intervals (e) | 1 mg | |
| Temperature Range (°C) | 15 to 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Display | LCD with back light | | | | | | | | | | | | | | | | | | | | | | | | | |
| Power Supply | AC 220V / 50-60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimension (Height) | 355 mm | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimension (Length) | 360 mm | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dimension (Width) | 260 mm | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weight | 3.5 kg | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. (Capacity) | 220 g | | | | | | | | | | | | | | | | | | | | | | | | | |
| Readability (D) | 0.001 g (1 mg) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Repeatability (+/-) | 0.001 g | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min. (Capacity) | 1 mg | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verification Scale Intervals (e) | 1 mg | | | | | | | | | | | | | | | | | | | | | | | | | |

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|-------------------------|--------------------|--|
| Calibration | Automatic External | |
| Class | Class 1 | |
| Response Time | 3 - 4 Sec | |
| Pan Size (mm) | 90 mm Ø | |
| Tare Range | Full | |
| Sensitivity Drift (+/-) | 2 ppm/°C | |
| Density Measurement | Function Available | |
| Weighing Chamber | 240 x 190 x 265 mm | |
| Unit | g, mg, ct, oz | |

Cost of Tender Forms: - 0.2% of the quoted amount rounded to the nearest multiple of 100, subject to a minimum of Rs.400/- and maximum of Rs. 1500 + GST 18%

Terms and Conditions: -

1. Tender should be submitted in the prescribed forms which can be downloaded from the website www.kau.edu/tenders. The cost of the tender forms will not be refunded under any circumstances.
2. The sealed cover containing the tender should be superscribed supply and installation of **Digital Bomb calorimeter, Soil hydrometer with hydrometer jar, Ice Flaker, Analytical balance** (along with the notification number) and addressed to the Dean, College of Climate Change and Environmental Science, Vellanikkara, KAU.
3. Tender should be accompanied by EMD of Rs.2000/- and Tender fee @ 0.2% +GST 18% of quoted amount by way of three crossed Demand Drafts separately (1. Tender fee 2.GST on tender fee 3.EMD) drawn in favour of The Dean, College of Climate Change and Environmental Science, Vellanikkara, KAU, payable at the State Bank of India, KAU branch, Vellanikkara,. Late and incomplete tenders and tenders without EMD, tender fee and agreement will not be accepted. Firms which are exempted from payment of EMD should furnish copy of the current valid certificate from the Store Purchase Department, Government of Kerala.
4. The tender should be accompanied by an agreement in Kerala Stamp Paper worth Rs.200/- (Rupees Two Hundred only) and format can be downloaded from the above website.
5. The successful tenderer should execute an agreement in Kerala Stamp Paper worth Rs. 200/- (Rupees Two Hundred only) and should furnish a security deposit of 5% of the cost of the items quoted in the form of demand draft term deposit/ bank guarantee/demand draft drawn in favour of the Dean, College of Climate Change and Environmental Science, Vellanikkara, KAU at State Bank of India, KAU branch, Vellanikkara, the format of the agreement can be downloaded from the above website.

6. The price must be inclusive of all taxes and transportation charges and other charges, if any.
7. The cost of the item, tax and other charges should be stated separately
8. The exact specification, details of make, model, name of manufacturer, warranty details etc., of the item must be clearly specified.
9. If any Bandh/strike/ any unexpected holidays occur on the date of opening of tender, the tender will be opened at the same time on the next working day. The decision of the undersigned in accepting the tenders shall be final and binding.
10. Withdrawal of tenders after its acceptance of failure to supply the equipment or not according to the specification will entail cancellation of the tender.
11. The supply order will be issued on the acceptance of the tender and the invoice should be addressed to the Dean, College of Climate Change and Environmental Science, Vellanikkara. The payment will be effected only after satisfactory supply and installation of the item.
12. The successful tenderer should supply and install the item to College of Climate Change and Environmental Science, Vellanikkara, KAU. within Ten days from the date of the receipt of the supply order.
13. The Dean, College of Climate Change and Environmental Science, Vellanikkara, reserves the right to remove the name of the defaulted suppliers from the list of suppliers permanently or for a specific period.
14. The Dean, College of Climate Change and Environmental Science, Vellanikkara, has the right to accept or reject any or all of the offers without assigning any reason.
15. All the rules and regulations applicable to Government quotations will be applicable to this also.
16. In case of any delay in the procurement and installation of the equipment, the supplier/dealer shall be liable to pay a demurrage fee as determined by the College.

To,

1. KAU Website
2. Notice board

Signed by

(Sd/-)
DEAN