

KERALA AGRICULTURAL UNIVERSITY

**Department of Agricultural Microbiology
College of Agriculture
Vellayani Dated 19.02.2021**

No. MICR/ASP/20

TENDER NOTICE

Sealed competitive tenders are invited for the purchase of following equipments.
(Specification attached).

Sl. No.	Name of equipment	Qty.	Specification	Tender Cost
1	UV vis spectrophotometer	1	Specifications attached	(0.25%) of the quoted amount rounded the nearest multiple of Rs.100/-
2	Incubator	1	Specifications attached	(0.25%) of the quoted amount rounded the nearest multiple of Rs.100/-

Tender forms can be down loaded from the KAU Website (www.kau.edu/tenders). On submitting the tender form, cost of the tender form as mentioned above may be drawn by DD in favour of Associate Director of Research, RARS(SZ), College of Agriculture, Vellayani 695522 payable at SBI, Vellayani, Trivandrum should be enclosed.

EMD @ 1% of the quoted amount should be enclosed as separate DD drawn at the same address along with an agreement executed in Kerala Stamp paper worth Rs.200/- with the tender. **The name of the equipment for which the rate is quoted, notification number and date of opening of tender should be written on top of the envelope.** Sealed tenders addressed to the Associate Director of Research, RARS (SZ), College of Agriculture, Vellayani, Thiruvananthapuram -695522 should reach this office on or before 10.00 a.m. on 10.03.2021. Tenders received after the stipulated date and time will not be accepted under any circumstances. Tenders will be opened at 1.00 p.m. on 10.03.2021 in the presence of the tenderers or their authorized representatives.

All the terms and conditions prescribed for Govt. tenders as amended from time to time are applicable in this case also. The undersigned has the right to accept or reject any or all tenders without assigning any reason thereof.

Further details can be had from the office of RARS (SZ), College of Agriculture, Vellayani 695522 during office hours between 10.00 A.M. and 5.00 P.M. in Ph.No.9495817932 and also through KAU website (www.kau.edu/tenders).

S/d

Professor and PI
Department of Agricultural Microbiology

To

Website (www.kau.edu/tenders)

- Copy to: 1. Notice Board, College office
2. Panchayath office ,Kalliyyor
3. Village office, Kalliyoor
4. Krishi Bhavan, Kalliyoor
5. KAU Website ([www.kau.in>tenders](http://www.kau.in/tenders))

Terms & Conditions:

1. The tender form may be downloaded from the following link in the internet www.kau.in/tenders
2. The cost of tender from GST and EMD will be accepted by way of separate DDs in favour of Associate Director, Regional Agricultural Research Station, Vellayani
3. Earnest Money Deposit: An EMD (1% of the amount quoted) should be remitted by separate DD Drawn in favour of “Associate Director, Regional Agricultural Research Station (South Zone), College of Agriculture , Vellayani
4. The tender should be accompanied by an agreement in Kerala stamp paper worth Rs. 200/- (Rupees Two hundred only) in the format that can be downloaded from the website www.kau.in/tenders
5. The sealed cover containing the tender documents should be super scribed as “Tender for electrophoresis unit with power bank” at RARS (South Zone) Vellayani”. The cover should contain the DDs for tender cost, GST, EMD and the Agreement as mentioned above
6. The successful tenders should execute and agreement in Kerala stamp paper worth Rs.200/- (Rupees Two hundred only) and furnish a security deposit of 5% of cost of the rate quoted in the form of term deposit/bank guarantee/ demand draft drawn in favour of Associate Director, Regional Agricultural Research Station (South Zone), College of Agriculture , Vellayani, Thiruvananthapuram Pin-695 522, payable at the State Bank of India, Vellayani (IFSC: SBIN0070019), When directed from this office.
7. The rate quoted, tax and other charges if any should be separately stated
8. The Associated Director has the right to accept or reject any or all of the offers without assigning any reason
9. The successful Tender shall initiate the work/supply the item within one week of award and should finish the supply within one month
10. If any hartal/strike/any unexpected holiday occurs on the date of opening of tender, the tender will be opened at the same time on the next working day
11. All the rules and regulation applicable to government tender will be applicable to this tender also.

SPECIFICATIONS

I. UV vis spectrophotometer

Wavelength range: 190 to 1100 nm

Spectral Bandwidth : 1 nm (190 to 1100 nm)

Wavelength display: 0.1 nm increments

Wavelength settings: 0.1 nm increments (1 nm increments when setting scanning range)

Wavelength accuracy: + 0.05 at D2 peak 656.1 nm; + m.3 for all range

Wavelength repeatability: +0.1 nm

Wavelength slew rate: 14,500 nm /min

Wavelength scanning speed: 3000 to 2 nm/min;

Lamp interchange wavelength: 295 o 364nm

Photometric system: Double beam optics

Photometric Range: Absorbance -4 to 4 Abs, Transmittance 0% to 400%

Photometric Accuracy: ± 0.002 Abs at 0.5Abs, ± 0.0025 Abs at 1.0Abs, ± 0.006 Abs at 2.0 Abs

Photometric repeatability: Less than ± 0.0001 Abs at 0.5 Abs, Less than ± 0.0001 Abs at 1 Abs, Less than ± 0.0005 Abs at 2Abs

Baseline stability: Less than 0.0003 Abs/hr

Baseline flatness: Less than ± 0.0006 Abs ((700nm)

Noise level: Less than 0.00003 Abs

Light Source: 20W halogn lamp and deuterium lamp built in light source auto position adjustment

Monochromator: LL- RAY-LIGHT grade blazed holographic grating in Czerny Turner mounting

Detector: Silicon photodiode

Sample Compartment: Internal dimensios: W110 D250 H115mm

Distance between light beams: 100n

Power Requirements: AC 100, 120, 220, 20, 240 V, 50/60 Hz, 140 VA

PC compatibility: UV Probe software (standard) Lab Solution UV-VIS software (optional),

External control possible

Display: 24 bit color touch screen

All procedure with software support

II. Incubator

Chamber capacity	:	100L
TemperatureRange	:	Ambient+5° to 60°C
Temperature Accuracy	:	$\pm 0.1^\circ\text{C}$
Permissible Ambient Temperature	:	10°C to 35°C

Temperature Sensor	:	Pt100
Temperature Controller	:	PID
Temperature Display	:	Digital LED
Temperature Change via	:	Soft Touch Keypad

Double glazed viewing window & one LED lamp for easy visibility of samples without opening the door.

Material of Construction : Interior SS and Exterior MS Powder coated

Internal Dimensions : (500x 510x 50) mm
(W x D x H) Per Unit

External Dimensions : (620 x 810 x 60) mm
(W x D x H) Per Unit

No of Tray provided : 2

No of provisions : 3

Electrical Requirement : 230V,6 Amps, 50 Hz,

- Outer chamber should be made up of Powder Coated Mild Steel and Inner chamber should be made up of polished Stainless Steel 304 Grade.
- The inner chamber should comprise a design with Fan, to distribute the air uniformly of the inner chamber.
- Inner chamber should have at least 2 No of perforated SS shelves railed on shelf holder which has to be mounted on Four individual holders for supports to ensure undisturbed air circulation.
- The space between inner and outer chamber should be insulated by means of thermo resistant fiber glass wool of 50 mm thickness which enables to maintain desired temperature inside the chamber irrespective of atmospheric condition.