UNION CHRISTIAN COLLEGE
(AUTONOMOUS)
(*Affiliated to Mahatma Gandhi University, Kottayam*)
www.uccollege.edu.in
Accredited by NAAC with '**A**$^{++}$' Grade, (*Cycle -5)*

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No.UCC/BOT/DST-BRNS/01/2026 27/10/2026

TENDER NOTICE

Sealed tenders are invited for the purchase of various Lab equipment's to the Department of Botany, Union Christian College, Aluva, Kerala as per the specification appended. The tenders super scribed 'Purchase of Lab equipments to the Department of Botany, DST-BRNS' should reach **The Principal, Union Christian College, Aluva, Kerala, 683102** latest by **2 p.m. on Thursday, 12.11.2026**. The tender forms with detailed specifications and terms and conditions may be had from the Head, Department of Botany, Union Christian College, Aluva (from 9.30 am to3.30 pm, on weekdays) or can be downloaded from the college website: www.uccollege.edu.in/tenders. Those who use downloaded tender forms must submit a demand draft for the tenders favoring "Union Christian College, Aluva", payable at Aluva

Cost of Tender form is as follows:	
Particulars	**Cost of tender forms original (Rs)**
Tender Fee	Rs.1,500 + 18% GST
Tender form can be down loaded from website	www.uccollege.edu.in
Last date & time for the receipt of tender	12/11/2026 Up to 3.00 PM
Date and time of opening the tender	13/11/2026 at 3.00 PM
EMD	1% of tendered value, by DD

The tender documents should contain:

1. Prescribed tender form, in duplicate, duly signed and sealed
2. Detailed technical specifications and original brochure and literature supporting technical specifications
3. Earnest Money deposit (EMD)
4. List of installations in Kerala and details of service facility in Kerala
5. Compliance to payment condition and delivery period and Place of delivery
6. Warranty and Training details if any.
7. Price of the equipment and its accessories, of essential spare parts
8. AMC details, etc.

The tenders duly filled and signed by the tenderer along with necessary documents should be submitted to **The Principal, Union Christian College, Aluva - 683102** on or before 3.00 pm on **12/11/2026**. Earnest Money Deposit (EMD) shall be submitted by way of demand draft in favour of the 'Principal, Union Christian College, Aluva', payable at Aluva. The Tender will be opened at 3 pm on **13/11/2026** at the College office of Union Christian College, Aluva in the presence of such tenderers or their representatives who may be present at that time. The Principal, Union Christian College, Aluva, reserves the right to accept or reject all or any tender at his/her sole discretion without assigning any reason. For legal purposes, the cause of action will be deemed to have arisen in Ernakulam, Kerala state, India.

s/d/-

PRINCIPAL 27-10-2026, Aluva

M/s The Principal
Union Christian College,
Aluva-683102, Kerala, India

TENDER FORM

Sir,

I,…….....of M/s……..... …… …… hereby agree to supply to the Department of Botany, Union Christian College Aluva, in accordance with the terms and conditions stipulated in the tender form, the equipment hereunder named of the quality or sort and at the rate or price hereunder specified, on the acceptance on this tender (Ref No.....) by you. I enclose demand draft No……dated…..……for the sum of Rs…… towards earnest money deposit to your credit which needs to be returned to me by you if this tender is not accepted.

Delivery:

We confirm that the quoted prices are firm and inclusive of all taxes and duties (including entry tax), freight and insurance for supply and installation at Union Christian College Campus. There would not be any price escalation during the supply period. We also confirm that we will abide by all the terms and conditions and we do not have any counter conditions.

Yours faithfully,

Signature of the Tenderer……..... (Seal)

Place……
Date……

TERMS AND CONDITIONS

1. The latest model with specifications shall be quoted and certified.
2. Tenders not accompanied by earnest money deposit (EMD) will not be considered and will be summarily rejected.
3. The earnest money deposit of all unselected tenders will be refunded within a short time after the tenders are opened. EMD of the successful bidders will be refunded immediately after the successful completion of the warranty period. No interest will be allowed on the earnest money remitted and no claim shall be entertained against The Principal, Union Christian College Aluva (herein after called 'THE PRINCIPAL') in respect of the same.
4. The quoted price should include cost of the instrument, freight, insurance, customs duty, clearance charges, entry tax (if applicable at the time of installation), installation and commissioning.
5. Payment terms:
    - 75% of the total value will be released on presentation of dispatch documents through bank.
    - Balance 25% after successful commissioning and acceptance by the end user.
6. Customs duty percentage and the CIF price on which it is based should be clearly specified in the tender and if the customs duty exemption certificate is secured the corresponding amount or the actual duty paid whichever is higher will be deducted from the bill. If the bill is actually paid, the tenderer should refund the amount to THE PRINCIPAL.
7. The tenderers should verify and make sure that the claims made by them against items towards Sales tax, customs duty, excise duty etc., are not more than those permissible under the provisions of the laws in force, and that they will refund any excess claims admitted in this respect.
8. The offers should be kept open for a period of three months from the date of opening tenders. Acceptance of the offers will be intimated to the successful tenderers within that period. Tenderers will however, be given the option to keep their offers open for a further agreed period if there be any delay in intimating the acceptance.
9. The installation should be done by the supplier free of cost .
10. Delivery period: The equipment and its accessories should be completely supplied, installed and commissioned to the satisfaction of the Department of Botany within 25 days from the date of supply order or date of L/C whichever is later.
11. Warranty: The entire equipment and its accessories should have comprehensive warranty of two years from the date of acceptance by the end user. If any spares are to be imported during warranty period, the cost, insurance, freight, customs duty and clearance charges should be given by the vendor.
12. The rates of terms of AMC (both comprehensive and labour) for a minimum period of three years after the warranty period shall be clearly specified. Both comprehensive and labour AMC amounts will be taken into consideration for final selection.
13. During warranty and AMC period, the vendor shall give an uptime guarantee of 95% or more.
14. Training: In order to fully and optimally utilize the equipment, necessary on site training should be given to the Botany department staff free of cost
15. List of installations in Kerala over the past three years shall be provided.
16. Number of trained engineers available in Kerala and nearest service station shall be mentioned.
17. Wherever options are called for in respect of specifications, the tenderer should induct all such options.
18. The successful tenderer should execute an agreement for the fulfillment of the contract in the stamp paper in the model form given in Appendix –I, within fifteen days from the date of

acceptance of the tender. The expenses incidental to the executing of agreement shall be borne by the successful tenderer.

19. The **equipment quoted in foreign currency must be quoted on FOB basis.**
20. AMC prices and accessories prices should be quoted separately for the major equipments. (item 1 to 6)

The specifications of the equipment's are given below.

A. Major Equipments.

❖ **ITEM NO: 1**

Description	Qty
UV-VIS Spectrophotometer	**1**

• Measuring Wavelength range	190 to 1100 nm or better
• Spectral bandwidth	1 nm (190 to 1,100 nm) or better
• Wavelength display	0.1 nm increments or better
• Wavelength setting	0.1 nm increments or better
	(1 nm increments when setting scanning range)
• Wavelength accuracy	± 0.1nm nm at D2 peak 656.1 nm
• Wavelength repeatability	± 0.1 nm
• Wavelength scanning speed	28,000 nm/minor better
• Lamp interchange wavelength	Automatic interchange linked to wavelength.
	The interchange wavelength can be set freely in the range of 296 to 363 nm (0.1 nm increments).
• Stray light	Less than 0.03% at 220 nm (NaI)
	Less than 0.03% at 340 nm (NaNO2)
	Less than 1% at 198 nm (KCl)
• Photometric system	Double beam optics
• Photometric range	Absorbance: Up to 3.9 Abs or better
	Transmittance: 0% to 400%
• Photometric accuracy • (measured using NIST930D/NIST1930 or equivalent.)	0.003 Abs or better at 0.5 Abs
	0.004 Abs or better at 1.0 Abs
• Photometric repeatability	0.0003 Abs or better at 0.5 Abs
	0.0004 Abs or better at 1 Abs

• Baseline flatness	Less than 0.0008Abs or better
• Noise level	Less than 0.00007 Abs or better
• Light source	20-W halogen lamp and deuterium lamp Built-in light source auto position adjustment
• Monochromator	Czerny-Turner mountinghaving LO-RAY-LIGHblazed holographic grating Manufacture should have their advanced grating technology with long life
• Detector	Silicon photodiode
• Sample compartment	Bult in to accommodate various accessories and sample holders for transmittance and reflectance.
	Distance between light beams: 100 mm
• Power requirements	AC100,120,220,230,240 V, 50/60 Hz, 140 VA
• Spectrum mode	Measurement modes: ABS, T%, E
	Number of repeat scans: 1 to 90
	Recording system: Selection between single spectrum and data overlay
	Data storage and recall
	Data processing:
	Peak/valley detection, arithmetic operations, differentiation, smoothing, area calculation, point picking, data reading at cursor-specified point
• Quantitation mode	Measurement methods: 1-wavelength, 2-wavelength, 3-wavelength, and 1st to 4th derivative methods
	Quantitation methods: Automatic concentration calculation using K-factor Automatic concentration calculation using single-point calibration curve Multi-point calibration curve method (1st to 3rd order regression curves)
	Measurement parameters: Number of standards (2 to 10) Number of repeat measurements (1 to 10 times) to obtain a mean value for quantitation.
• Kinetics mode	Measures absorbance changes as a function of time and calculates the enzymatic activity values.
	Measurement time: 1 to 9,999 sec/min
	Measurement methods: 1-wavelength,
	2-wavelength, multi-cell, and rate measurements
• Time scan mode	Measures changes in measured values as a function of time.
	Measurement mode: ABS, T%, E
	Measurement time: 1 to 9,999 sec/min
• Biomethod mode	DNA/Protein Quantitation
	Calculation of DNA/protein concentration and absorbance ratio DNA concentration = K1 × A1 - K2 × A2

	Protein concentration = K3 × A2 - K4 × A1
	Factors and measurement wavelengths can be set freely.
	Background correction is possible.
	Quantitation of proteins Quantitation methods: Lowry method, BCA method, Biuret method, CBB method (Bradford method), UV method
• Maintenance	Baseline correction
	Lamp usage time display and reset.
	Security settings
	Functions can be restricted according to the user.
	Instrument validation functions: Compatible with 9 JIS items Wavelength accuracy, wavelength repeatability, resolution, stray light, photometric accuracy, photometric repeatability, baseline flatness, baseline stability, noise level.
	Automated validation: Checks wavelength accuracy and repeatability, degradation, noise, baseline flatness, and baseline stability.
• Shared functions	Should have Fast startupand automated warm-up and performance checks.
	Should have Energy saving Shutdown/Wakeup functions reduce power consumption by more than 85% during instrument in standby mode.
	Should have facility for Network connectivity and to Transfers data to a PC
	Selection of displayed number of decimal places, Absorbance: 3 or 4 decimal places Transmittance: 1 or 2 decimal places
	Should have a built-in memory and storage facility
	Should be able to save Measurement parameters: 95 files max.
	Tabular data: 14 files max.
	Should be able to save Curve data: 16 files max.
	Should able to save Validation condition: 9 files max.
	Shouldable to save Validation result: 2 files max.
	Setting of integration time (for fixed-wavelength measurement)
	Optional Bar-Code Reader and Keyboard Entry Function Sample names and numerical values can be entered by a bar-code reader or from the keyboard. This saves time when entering sample names for a multiple sample analysis, and prevents sample misidentification and other human errors
• Display	color touch screenuser interface with facility to control instrument and programme. Windows software for connectivity with PC based operation

	Should have both stand alone control and PC control operations.
• Other	Vendor should have installation base in in referral labs and government departments related with food testing Instrument should have both built in semi automatic and automatic validation in the software. AMC and periodic maintenance , service engineer support shall be available within the State
	Quartz 10mm path length with cleaning kit. USB cable and power cable , User manual. OEM product test certificate along with instrument, Installation and training shall be provided at site. Warranty :One year AMC shall be provided after warranty period.

❖ **ITEM NO: 2**

Description	Qty
Hot air Oven • Hot Air Ovens are sturdy double walled units Inner chamber made of S.S. and outer made of Mild Steel with Powder coating. • Gap between the walls filled with glass wool insulation to avoid heat loses. • Temperature is controlled by thermostat. • Temp. range 50ºC to 250ºC and Accuracy: +-1ºC Air Ventilations are placed on top of both sides to remove hot gases/fumes • Chamber Size (L x B x H) : 300x300x300mm • Approx Ltr: 28	**1**

❖ **ITEM NO: 3**

Orbital Shaker • Shakers are made of fully stainless steel having Lotus Clamps holding various sizes of flasks and the orbital speed ranging from 50-250 RPM. • The unit has built with Micro Processor Controlled RPM and Digital timer 1 to 99 minutes. • Platform Size: 360 X 360mm • Capacity **:** 16 Flasks x 250 ml	**1**

❖ **ITEM NO: 4**

Binocular Microscope • With quadruple revolving nose piece, coaxial mechanical stage, binocular head with hard coated prisms, graduated precise slow motion, with built in light arrangement having 6v-20w halogen lamp and solid state light control arrangement complete in box with following optics. Eye : W.F. I0x (paired) Objectives : 5x, 10x, 45x (SL), I00x (SL) Oil immersion (a) Completes as above with A grade Indian optics. (b) Completes as above with Indian optics & 100x oil immersion having imported lenses.	**1**

INSTRUCTIONS TO TENDERERS REGARDING TENDER FORMS DOWNLOADED FROM INTERNET

1. Tender file is to be downloaded from the internet and printout is to be taken on A4 size paper and details are to be entered by the tenderer at the various locations in the document.

2. This tender document (in full) downloaded along with the various documents required to be submitted as per the tender conditions in a sealed cover duly super scribing with the name of the equipment, tender notice no. and date, should be submitted in the office as mentioned in the tender notice before the date and time stipulated in the tender document.

3. The cost of tender document as indicated in the tender document will have to be deposited by the tenderer in the form of bank draft payable in favor of Head, Department of Botany, Union Christian College Aluva along with the tender document. This should be enclosed as a separate Demand Draft. A single demand draft for the cost of tender form and Earnest Money Deposit will not be accepted. Tender not accompanied with the demand draft towards the cost of the tender document will be summarily rejected.

4. The earnest money deposit required for this supply as stipulated in the tender document also to be submitted separately.

5. Tenderers are advised to download tender documents well in advance and submit the tender before the stipulated time. It is the responsibility of the Tenderer to check any correction or any modifications published subsequently in Website and the same shall be taken into account while submitting the tender. Tenderer shall download corrigendum (if any), print it out, sign and attach it with the main tender document. Tender document not accompanied by published corrigendum/s is liable to be rejected. The institution will not be responsible for any postal delays / delay in downloading of tender document from the internet.

1. The tenderer may please note that the rate for items should be written in figures and in words. Each page of tender document should be signed by the tenderer.

2. Tenderers are free to download tender document at their own risk and cost, for the purpose of perusal as well as for using the same as tender document for submitting the offer. Master copy of the tender document is available in the Department of Botany as mentioned in the tender document. After award of tender an agreement will be prepared based on the master copy of tender document available in the above mentioned department. In case, any discrepancy between the tender document downloaded from the internet and the master copy, latter shall prevail and will be binding on the tenderers. No claim on this account will be entertained.

3. If any change/addition/deletion is made by the Tenderer the tender will be summarily rejected and full earnest money deposit will be forfeited.

4. The following declaration should be given by the tenderer while submitting the tender:

Declaration

(a) I/we have downloaded the tender form from the internet site www.uccollege.edu.in and I/ we have not tampered / modified the tender forms in any manner. In case, if the same is found to be tampered / modified I/we understand that my/our tender will be summarily rejected and full earnest money deposit will be forfeited and the contract will be terminated at my/ our risk and cost.

(b) I/we am/are submitting a demand draft no. _____ dated_____ issued by _____ for Rs._____ towards the cost of tender form.

Signature of Tenderer:

Date:

Address:

(Seal)