## DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA



#### **UVA WELLASSA UNIVERSITY**

# "SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE, UVA WELLASSA UNIVERSITY"

#### **UWU/G/NCB/C/25/02**

#### NATIONAL COMPETITIVE BIDDING

Bid Opening On	18 <sup>th</sup> September 2025 at 2.30 p.m.		
Bid Validity up to	77 days from 18 <sup>th</sup> September 2025		

Uva Wellassa University, Passara Road, Badulla, Sri Lanka.

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#### **INVITATION FOR BIDS**

## "SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE, UVA WELLASSA UNIVERSITY

#### UWU/G/NCB/C/25/02

The Chairman, Department Procurement Committee, on behalf of the Uva Wellassa University, hereby invites sealed bids from eligible and qualified bidders for the "SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE, UVA WELLASSA UNIVERSITY". The procurement will be conducted through the National Competitive Bidding (NCB) procedure.

- 1. Bidders should have at least three (03) years of experience in the relevant field in Sri Lanka.
- 2. Interested eligible bidders may obtain further information from the Deputy Bursar (Supplies), Uva Wellassa University, Passara Road, Badulla, (Tel.: 055-2226475, Fax No: 055-2226633), and inspect the bidding documents at the Supplies Division of the University between 9.00 a.m. and 3.00 p.m. from 01st September 2025 to 17th September 2025, and up to 12.30 p.m. on 18th September 2025.
- 3. A complete set of bidding documents in English may be purchased by interested bidders upon submission of a written application to the Deputy Bursar (Supplies), Uva Wellassa University, Passara Road, Badulla, and upon payment of a non-refundable fee of LKR 7,000.00 in cash at the Shroff Counter of the University. The bidder can also download the biding documents from the University website: <a href="www.uwu.ac.lk">www.uwu.ac.lk</a>. Those who are obtaining bidding documents from the University website must submit the complete documents together with a Bank Draft drawn in favour of the "Vice Chancellor, Uva Wellassa University" for LKR 7,000.00 as the non-refundable fee. Alternatively, payment may be made to any branch of Bank of Ceylon, to Uva Wellassa University, Account No: 3114820, with the original receipt/deposit slip attached to the bidding documents. The documents may be purchased until 12.30 p.m. on 18th September 2025.
- 4. Bids must be delivered to the Chairman, Department Procurement Committee, Uva Wellassa University, Passara Road, Badulla, on or before 2.00 p.m. on 18<sup>th</sup> September 2025. Please indicate the "SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE, UVA WELLASSA UNIVERSITY UWU/G/NCB/C/25/02" on the top left-hand corner of the envelope.
- 5. All bids must be accompanied by a **Bid Security** addressed to the **Chairman, Department Procurement Committee, Uva Wellassa University, Passara Road, Badulla**, valid for 120 days from the date of bid opening. The Value of the Bid Security shall be **LKR 390,000.00**.
- 6. A Pre-Bid meeting will be held at **10.00 a.m. on 09**<sup>th</sup> **September 2025** at the Board Room of Uva Wellassa University.
- 7. The completed bids shall be deposited in the 'Tender Box' available at the Registrar's Office of the University, or sent by Registered Post to the address given in Clause No.5, ensuring receipt before the deadline.
- 8. Late bids will be rejected. Bids will be opened immediately after the closing of bids, in the presence of the bidders or their authorized representatives who choose to attend the bid opening, at the Board Room of the Uva Wellassa University.

Chairman

Department Procurement Committee Uva Wellassa University Passara Road, Badulla, Sri Lanka Tel/ Fax No: 055-2226475, 055-2226633

#### **Section I. Instructions to Bidders (ITB)**

This Bidding Document is based on the Standard Bidding Document for National Competitive Bidding (NPA/Goods/SBD 01). Section I will not be provided with this bidding document. Bidders are instructed to refer to Section I of the Standard Bidding Document (NPA/Goods/SBD 01) available on the **National Procurement Agency (NPA)** website: www.npa.gov.lk

#### **Section II. Bidding Data Sheet (BDS)**

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in the ITB.

[Instructions for completing the Bid Data Sheet are provided, as necessary, in the corresponding ITB Clauses.]

Clause						
Reference	A. General					
ITB 1.1	The Purchaser is: Uva Wellassa University					
ITB 1.1	The name and identification number of the Contract are: "SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE, UVA WELLASSA UNIVERSITY					
ITB 2.1	The source of funding is: <b>GOSL</b>					
ITB 4.4	Foreign bidders are allowed to participate in bidding: <b>Not allowed</b>					
	B. Contents of Bidding Documents					
ITB 7.1	For clarification of bid purposes only, the Purchaser's address is: Attention:					
	Deputy Bursar/ Supplies & Stores					
	Address: Uva Wellassa University, Passara Road, Badulla.					
	Telephone: <b>055-2226475</b>					
	E-mail: supply@uwu.ac.lk					
	C. Preparation of Bids					
ITB 11.1 (e)	The Bidder shall submit the following additional documents:					
	A complete company profile of the bidder, including but not limited to the					
	following:					
	Business Registration Certificate					
	VAT Registration Certificate					
	List of clients who use the products and their contact details					
	• Past three (03) years of relevant experience in the industry in Sri Lanka					
	(The bidder should have at least three years of experience in the industry in					
	Sri Lanka and should submit documents to prove this experience)					
	Manufacturer's Authorization.					
	Certificate of Registration under Public Contract Act.					
	Financial Statements					
ITB 15.1	The bidder shall quote the local expenditure in <b>Sri Lankan Rupees</b> .					
ITB 18.1 (b)	After-sales service is: <b>Required</b>					

ITB 19.1	The hid shall h	pe valid for: 77 days from 18 <sup>th</sup> September 2025.
ITB 19.1 ITB 20.1		de a Bid Security in any of the following ways:
11B 20.1		
	· · ·	uarantee issued by a reputed bank operating in Sri Lanka.
		eposit at the Shroff Counter of the University
	* *	eposit from any branch of the Bank of Ceylon, to Uva
		University, Account No: 3114820, with the cash
		eposit slip attached to the bidding documents.
ITB 20.2		the Bid Security is Rupees 390,000.00.
	<u> </u>	ice Chancellor, Uva Wellassa University.
		riod of the bid security shall be 120 days from the closing date of the
	bid.	
		D. Submission and Opening of Bids
ITB 22.2 (c)		outer envelopes shall bear the following identification marks:
	"SUPPLY, DI	ELIVERY AND INSTALLATION OF LABORATORY
	EQUIPMENT	FOR FACULTY OF ANIMAL SCIENCE AND EXPORT
	AGRICULTU	JRE, UVA WELLASSA UNIVERSITY- UWU/G/NCB/C/25/02
ITB 23.1	For bid submis	ssion purposes, the Purchaser's address is:
	Attention	: Deputy Bursar/Stores & Supplies
	Address	: Uva Wellassa University, Passara Road, Badulla.
	The deadline f	or the submission of bids is
	Date	: 18th September 2025
	Time	: 2.00 p.m.
ITB 26.1	The bid openir	ng shall take place at:
	Address	: Board Room, Uva Wellassa University, Passara Road, Badulla.
	Date	: 18 <sup>th</sup> September 2025
	Time	: 2.30 p.m.
		E. Evaluation and Comparison of Bids
ITB 34.1	Domestic prefe	erence shall not be a bid evaluation factor.
ITB 35.3(d)	The adjustmen	ts shall be determined using the following criteria, among those set out
	in Section III,	Evaluation and Qualification Criteria:
	(a) Deviation i	n Delivery schedule:
	Option 2 -P	lease refer to CC 26.1
	(b) Deviation i	n payment schedule: Not applicable
	(c) The cost of	major replacement components, mandatory spare parts, and service:
	Applicable	
ITB 35.4	The following	factors and methodology will be used for evaluation: A certificate
	from a Charter	red Electrical Engineer should be produced after the installation.
ITB 35.5		e allowed to quote for one or more lots. [refer to Section III, Evaluation
		ion Criteria]. The Purchaser will evaluate the bid on an item-by-item
	basis.	-

#### Section III. Evaluation and Qualification Criteria

#### 1. Evaluation Criteria (ITB 35.3 (d))

The Purchaser's evaluation of a bid may take into account, in addition to the Bid Price quoted in accordance with ITB Clause 14, one or more of the following factors as specified in ITB Sub-Clause 35.3(d) and in BDS referring to ITB 35.3(d), using the following criteria and methodologies.

#### (a) Delivery schedule

#### Option 2

The goods covered under this invitation are required to be delivered within an acceptable range of weeks specified in the Schedule of Requirements. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as non-responsive. Within this acceptable range, an adjustment per week, as specified in the Bid Data Sheet, will be added, for evaluation purposes only, to the bid price of bids offering deliveries later than the earliest delivery period specified in the Section V, Schedule of Requirements.

- (b) Deviation in payment schedule. **Not applicable**
- (c) Cost of major replacement components, mandatory spare parts, and service:

  The required spare parts for the goods covered under this invitation shall be available for at least five years of period and after sales service (both free and paid services).
- (d) Specific additional criteria: None

#### 2. Evaluation Criteria (ITB 35.4):

- (a) A bid may be submitted by any reputed supplier of **Laboratory Equipment**, registered business in Sri Lanka, or any accredited local agent who takes fullest responsibility for the entire bid. The local agent shall submit documentary evidence of their status, obligations, power of attorney, and any other supporting documents confirming that they are duly authorized and eligible to bid on behalf of the manufacturer.
- (b) Bidders shall have a minimum of three years' prior experience in the relevant industry, in the supply and also technical and financial capability necessary to perform the contract.
- (c) A draft service agreement for three-year period (after the warranty period) shall be submitted with the bid.
- (d) Bids will be rejected non-responsive if the required documentary evidence in support of the above criteria is not provided.
- (e) If an Agent submits bids on behalf of more than one supplier, unless each such bid is accompanied by a separate Bid Form for each bid, and a bid security when required for each bid, and authorization from the respective Manufacturer, and valid vendor certificate, all

such bids will be rejected as non- responsive.

- (f) Bidders should possess the Certificate of Business Registration issued by a Governmental Authority/Registrar of Companies/Provincial Registrar of Business in the relevant category.
- (g) Bidders shall register the Contract under Public Contract Act and submit the certificate of registration (ITB 11.1(e)).
- (h) Bidders offering goods under their own brand names should provide along with their bids a current certification/s of quality; Bid not complying with this requirement may be treated as non responsive.
- (i) Having a service center in Badulla or Uva Province will be considered as an added qualification.

#### 3. Multiple Contracts (ITB 35.5)

The Purchaser shall award multiple contracts to the Bidder that offers the lowest evaluated combination of bids (one contract per bid) and meets the post-qualification criteria (this Section III, Sub-Section ITB 37.2 Post-Qualification Requirements)

The Purchaser shall:

- (a) Evaluate only lots or contracts that include items per lot and quantity per item
- (b) Take into account: The lowest-evaluated bid for each lot

#### 4. Post qualification Requirements (ITB 37.2)

After determining the lowest-evaluated bid in accordance with ITB Sub-Clause 36.1, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 37, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) Financial Capability: The Bidder shall furnish documentary evidence that it meets the following financial requirement(s): [list the requirement(s)]
- (b) Experience and Technical Capacity: The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s): [list the requirement(s)]
- (c) The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement: [list the requirement(s)]

## **Section IV. Bidding Forms**

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#### **Bid Submission Form**

[The Bidder shall fill in this Form in accordance with the instructions indicated No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: [insert date (as day, month and year) of Bid Submission]
No.: [insert number of bidding process]

To: Chairman,
Department Procurement Committee
Uva Wellassa University
Passara Road
Badulla

We, the undersigned, declare that:

- a. We have examined and have no reservations to the Bidding Documents, including Addenda No.: [insert the number and issuing date of each Addenda];
- b. We offer to supply in conformity with the Bidding Documents and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services [\* insert a brief description of the Goods and Related Services];
- c. The total price of our Bid without VAT, including any discounts offered is: [insertthe total bid price in words and figures];
- d. The total price of our Bid including VAT, and any discounts offered is: [insert the total bid price in words and figures];
- e. Our bid shall be valid for the period of time specified in ITB Sub-Clause 18.1, from the date fixed for the bid submission deadline in accordance with ITB Sub-Clause 23.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- f. If our bid is accepted, we commit to obtain a performance security in accordance with ITB Clause 43 and CC Clause 17 for the due performance of the Contract;
- g. We have no conflict of interest in accordance with ITB Sub-Clause 4.3;
- h. Our firm, its affiliates or subsidiaries—including any subcontractors or suppliers for any part of the contract—has not been declared blacklisted by the National Procurement Agency;
- i. We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- j. We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.

Signe	d: [insert	signature	of person	whose na	me and cap	acity are	e shown]	
In the	capacity	of [insert	legal capa	acity of pe	rson signin	g the Bio	d Submission	Form]

Name: [insert cor	nplete name of person	n signing the Bid Submission Form
Duly authorized t	o sign the bid for and	on behalf of: [insert complete name of Bidder
Dated on	day of	

#### **Price Schedule**

Note: 1. Unless otherwise allowed under ITB Clause 15, the bidders are required to quote the prices under 'A' columns;

- 2. Bidders may quote prices under 'B' columns only if the ITB Clause 15 provides provisions to bid in foreign currencies for the line item
- 3. Purchaser is advised to fill columns 1,2 and 3 before issuing the bidding document and delete this note 3;

C1	C2	C3	C4	C5	<b>C6</b>	C7	C8	<b>C9</b>	C10
Item	Description of Goods or related services	Quantity	Unit price (inclusive of duties, sales, and other taxes) excluding VAT	Price per line item (Col.3×4)	Transportation, insurance, and other related services to deliver the goods to their final destination	Total price excluding VAT (Col 5+6)	Discounted total price (if any ) excluding VAT	VAT	Total Price Including VAT (Col. 7 or 8+9)
1	Kjeldahl Unit	1							
2	Top Loading Balance	1							
3	Chest Freezer with Curved Glass Top	1							
4	Chest Freezer – (200 L)	2							
5	Chest Freezer (350–400 L)	1							
6	Electric Fryer (Dual Tank)	1							
7	Laboratory Fume Hood Workstation with Ducting System	1							
8	Cell Counting Unit	1							
9	Compound Microscope with Camera Head	1							
10	Stereo Microscope with Camera Head	1							
11	Mini Centrifuge	2							
12	Portable pH Meter	2							
13	Laboratory Refrigerator with bottom Freezer	3							
14	Orbital Shaker	1							

15	Lux Meter	1				
16	Culture Racks	3				
		3				
17	Drying Oven	1				
18	Kjeldhal Digestion Unit & Distillation Unit	1				
19	Soil Hydrometer (ASTM 152H)	1				
20	Gel Electrophorosis Unit	1				
21	Insect Rearing Cabinet	1				
22	Bench Top pH Meter (Type 1)	1				
23	Bench Top pH Meter (Type 2)	1				
24	Distilled Water Plant	1				
25	Gas Cooker	1				
26	Blender	1				
27	Refrigerated Centrifuge	1				
28	Bench Top Homogenizer	1				
29	Automatic Laboratory Water Distiller	2				
30	Stainless Steel Milk Containers (5L)	2				
31	Stainless Steel Milk Containers (10L)	2				

## **Bid Security (Guarantee)**

(this Bank Guarantee form shall be filled in accordance with the instructions indicated in brackets)insert issuing agency's name, and address of issuing branch or office
Beneficiary: Vice Chancellor, Uva Wellassa University, Passara road, Badulla
Date: [insert (by issuing agency) date]
BID GUARANTEE No.: [insert (by issuing agency) number]
We have been informed that
Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.
At the request of the Bidder, we [insert name of issuing agency] here by irrevocably undertake to pay you any sum or sums not exceeding in total an amount of
[insert amount in words] upon receipt by us of your first demand in writing accompanied by a written statement stating that the bidder is in breach of its obligation(s) under the bid conditions, because the bidder:
(a) Has withdrawn its bid during the period of bid validity specified; or
(b) Does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
(c) Having been notified of the acceptance of its bid by the Employer during the period of bid validity, (i) fails or refuses to execute the Contract Form, if required, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.
This Guarantee shall expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) the successful bidder furnishing the performance security, otherwise it will remain in force up to(insert date)
Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.
[Signature of authorized representative(s)]

#### **Bid Securing Declaration**

[The **Bidder** shall fill in this form in accordance with the instructions indicated in brackets]

Date:	[insert	date	by b	oidder
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Name of contract: "SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE, UVA WELLASSA UNIVERSITY

Contract Identification No: - UWU/G/NCB/C/25/02

To: Chairman, Procurement Committee, Uva Wellassa University

We, the undersigned, declare that:

- 1. We understand that, according to instructions to bidders (hereinafter "the ITB"), bids must be supported by a bid-securing declaration;
- 2. We accept that we shall be suspended from being eligible for contract award in any contract where bids have being invited by any of the Procuring Entity as defined in the Procurement Guidelines published by National Procurement Agency of Sri Lanka, for the period of time of three years starting on the latest date set for closing of bids of this bid, if we:
  - (a) withdraw our Bid during the period of bid validity period specified; or
  - (b) do not accept the correction of errors in accordance with the Instructions to Bidders of the Bidding Documents; or
  - (c) having been notified of the acceptance of our Bid by you, during the period of bid validity, (i) fail or refuse to execute the Contract Form, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the ITB.
- 3. We understand this bid securing shall expire if we are not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder that the bidder was unsuccessful; or (ii) twenty-eight days after the expiration of our bid.
- 4. We understand that if we are a JV, the Bid Securing Declaration must be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Securing Declaration shall be in the names of all future partners as named in the letter of intent.

Signed [insert signature(s) of authorized representative] In the Capacity of [insert title]

Name [insert printed or typed name]

Duly authorized to sign the bid for and on behalf of [insert authorizing entity]

Dated on [insert day] day of [insert month], [insert year]

#### Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its bid, if so indicated in the BDS.]

Date: [insert date (as day, month and year) of Bid Submission]

No.: [insert number of bidding process]

To: [insert complete name of Purchaser]

#### **WHEREAS**

We [insert complete name of Manufacturer], who are official manufacturers of [insert type of goods manufactured], having factories at [insert full address of Manufacturer's factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following Goods, manufactured by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27 of the Conditions of Contract, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on \_\_\_\_\_\_day of \_\_\_\_\_\_, \_\_\_\_[insert date of signing]

## Section V. Schedule of Requirements

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## 1. List of Goods and Delivery Schedule

			Final (Project —	Delivery Date <sup>1</sup>			
Item No	Description of Goods	Description of Goods Quantity	Site) Destination as specified in BDS	Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]	
1	Kjeldahl Unit	1					
2	Top Loading Balance	1					
3	Chest Freezer with Curved Glass Top	1					
4	Chest Freezer – (200L)	2					
5	Chest Freezer (350–400 L)	1					
6	Electric Fryer (Dual Tank)	1					
7	Laboratory Fume Hood Workstation with Ducting System	1					
8	Cell Counting Unit	1					
9	Compound Microscope with Camera Head	1					
10	Stereo Microscope with Camera Head	1					
11	Mini Centrifuge	2					
12	Portable pH Meter	2					
13	Laboratory Refrigerator with bottom Freezer	3					
14	Orbital Shaker	1					
15	Lux Meter	1					
16	Culture Racks	3					
17	Drying Oven	1					

18	Kjeldhal Digestion Unit & Distillation Unit	1		
19	Soil Hydrometer (ASTM 152H)	1		
20	Gel Electrophorosis Unit	1		
21	Insect Rearing Cabinet	1		
22	Bench Top pH Meter (Type 1)	1		
23	Bench Top pH Meter (Type 2)	1		
24	Distilled Water Plant	1		
25	Gas Cooker	1		
26	Blender	1		
27	Refrigerated Centrifuge	1		
28	Bench Top Homogenizer	1		
29	Automatic Laboratory Water Distiller	2		
30	Stainless Steel Milk Containers (5L)	2		
31	Stainless Steel Milk Containers (10L)	2		

## 2. List of Related Services and Completion Schedule

[This table shall be filled in by the Purchaser. The Required Completion Dates should be realistic and consistent with the required Goods Delivery Dates]

Service	Description of Service	Quantity <sup>1</sup>	Unit	Place where Services shall be performed	Final Completion Date(s) of Services
[insert Service No]	[insert description of Related Services]	[insert quantity of items to be supplied]	[insert unit for the items]	[insert name of the Place]	[insert required Completion Date(s)]

<sup>1.</sup> If applicable

#### **Technical Specifications**

[The Technical specifications may be provided in the following format. The bidder shall fill the columns 6 and 7. Bidder's failure to provide the information requested in the columns 6 and 7 may be a reason for the rejection of the bid. If any discrepancy is observed between the information provided by the bidder in the columns 6 and 7 and the other technical information attached to the bid, the information provided herein shall take precedence.]

	Name of the			Bidder's Compliance		
No	Item	Specification	Qty	Yes/ No	If "No", Bidder's Response	
1	Kjeldahl Unit	Kjeldahl Unit (Semi-Automatic Kjeldahl Distillation Unit and Macro Kjeldahl Digestion Block)	1			
		Semi-Automatic Kjeldahl Distillation Unit				
		<ul> <li>Construction: Durable, chemical-resistant technopolymer/ Powder coated casing</li> <li>Power supply: Approx. 220V/50Hz</li> <li>Equipped with:</li> </ul>				
		<ul> <li>✓ Integrated steam generator</li> <li>✓ Safety features (over-temperature &amp; over-pressure protection)</li> <li>✓ Distillation head with condensers</li> </ul>				
		<ul> <li>Operation: Semi-Automatic with programmable distillation time</li> <li>Measuring Range: Approx. 0.1 – 200 mg Nitrogen</li> <li>Nitrogen Recovery: ≥ 99.5%</li> <li>Distillation Speed: Approx. 35–40 mL/min</li> <li>Typical Distillation Time: Approx. 7–10 min</li> <li>Steam Generator Reservoir: Approx. 6 L</li> <li>NaOH Reservoir: Approx. 2 L</li> <li>Boric Acid Reservoir: Approx. 2 L</li> <li>Supplied Accessories for the unit: <ul> <li>✓ One Macro tube (Ø ~42 mm)</li> <li>✓ One set of connection tubes</li> <li>✓ One set of reservoirs (one reservoir each for NaOH, Boric acid, and water)</li> </ul> </li> </ul>				

- Compatibility: Suitable for use with Kjeldahl Digestion Block (Kjeldahl Grass tubes: Macro Ø ~42 mm, 250mL capacity)
- Warranty: Minimum 3 years
- Documentation: Product catalog should include brand name, country of origin, and requested product specifications.

#### **Macro Kjeldahl Digestion Block**

- Construction: Rugged stainless steel with acid-resistant coating
- Heating: Thermostatically controlled, uniform block heating
- Temperature range: Approx. ambient to 450°C
- Safety: Over-temperature protection
- Power supply: Approx. 220V/50Hz
- Approx. Capacity: 6 positions
- Heater Block: 1 metal block
- Programmer: For time and temperature control
- Tube Support Rack: 1 unit
- Gas Collector: 1 unit
- Compatibility: Must match the distillation unit's tube specifications (Kjeldahl Grass tubes: Macro Ø ~42 mm, 250mL capacity)
- Warranty: Minimum 3 years
- Documentation: Product catalog should include brand name, country of origin, and requested product specifications.

The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.

The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.

2	Top Loading Balance	<ul> <li>Weighing Range: 0.01 g - 6,200 g</li> <li>Weighing Plate Size: Approx. 160–170 × 160–170 mm</li> <li>Readability: 0.01 g</li> <li>Temperature Range (Permissible Operating): Approx. 5–35°C</li> <li>Connectivity: RS232C and USB port (for printer or data output)</li> <li>Accessories: Optional glass draft shield</li> <li>Applications: Should be suitable for standard laboratory weighing and general balancing purposes</li> <li>Warranty: Minimum 3 years</li> <li>Documentation: Product catalog must be provided showing brand name, country of origin, and confirmation that the product meets the requested specifications</li> <li>The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.</li> <li>The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.</li> </ul>				
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3	Chest Freezer with Curved Glass Top	<ul> <li>Capacity: Approx. 3</li> <li>Shall be equipped wensure energy-efficities. Cooling Method: D</li> <li>Temperature Control. Power Supply: 230</li> <li>Shall use R-600a (Is environmentally frice). Compressor Warrar.</li> <li>Comprehensive Warrar.</li> <li>Comprehensive Warrar.</li> <li>Documentation: Prospecifications, brand with requested specification of the equipment required specifications.</li> </ul>	with an inverter-type compressor or equivalent technology to lient and stable operation. Sirect cooling with four-sided refrigeration ol: Mechanical temperature control V, 50 Hz (sobutane) refrigerant or an equivalent energy-efficient and lendly refrigerant compliant with international safety standards aty: Minimum 5 years (rranty: Minimum 3 years) oduct catalog must be provided showing approximate diname, country of origin, and confirmation of compliance	1		
4	Chest Freezer – (200 L)	Type	Chest type	2		
		Net Capacity	Approx. 200 L			
		Outer Cabinet material	Plain PCM			
		Condenser tube material	MS SWST Tube			
		Inner cabinet Material	Emboss PCM			
		Castor	4 Rollers			

		Refrigerant	R-600a	
		Convertible		
		Warranty	Should have 03 years Manufacturer warranty	
	Brand name, Product Catalog, Catalog page and Model no should be available.  Requested specification should be stated in the Catalog page and product web site			
			quested specification by the university [equipment supply the equipment would be rejected after goods delivery to the	
5	Chest Freezer (350–400L)	<ul> <li>Capacity: Approx.</li> <li>Shall use R-600a (I environmentally fri</li> <li>Shall be equipped vensure energy-effice</li> <li>Voltage: 220–230 Vensure of Doors: An inverse of Universe of Un</li></ul>	sobutane) refrigerant or an equivalent energy-efficient and endly refrigerant compliant with international safety standards. with an inverter-type compressor or equivalent technology to itent and stable operation.  V, 50 Hz  2 Id be available nandles or equivalent face/five-surface cooling erial: Embossed PCM or equivalent erial: PCM or equivalent l castors ce hinge or equivalent aterial: Mild steel (MS) or stainless steel tube eric Green light owing features  Indicator Light Control Knob  Fan	

		<ul> <li>Cabinet Partition</li> <li>Compressor Warranty: Minimum 5 years</li> <li>Comprehensive Warranty: Minimum 3 years</li> <li>Installation and calibration</li> <li>Documentation: Product catalog must be provided showing approximate specifications, brand name, country of origin, and confirmation that the product meets the requested specifications.</li> <li>The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.</li> <li>The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.</li> </ul>		
6	Electric Fryer (Dual Tank)	<ul> <li>Configuration: Two oil tanks with lids</li> <li>Accessories: Two rugged stainless-steel wire baskets with handles</li> <li>Material of the body and tanks: Corrosion-resistant stainless steel (Grade 316 or equivalent)</li> <li>Thickness: Outer housing: 0.7–1.0 mm (or equivalent gauge); Inner tanks:0.9–1.2 mm (or equivalent gauge)</li> <li>Controls &amp; Features: Thermostat, temperature controller, micro switch, and power switch</li> <li>Oil Capacity: Approx. 5–8 L per tank</li> <li>Operating Temperature Range: Approx. 50–200 °C (thermostatically controlled)</li> <li>Voltage: 220 V / 50 Hz</li> <li>Power: Approx. 3 kW + 3 kW</li> <li>Warranty: Minimum 12 months for the heating element</li> <li>Documentation: Product catalog must be provided, including approximate specifications, brand name, country of origin, and confirmation of compliance with the requested specifications</li> </ul>	1	

	The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.  The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.		
7 Laboratory Fume Hood Workstation with Ducting Syste m	<ul> <li>Interior Material, Exterior Material, Side Plates, Frame and Blower Material: Polypropylene (PP) or equivalent with acid and heat resistance</li> <li>Work Surface: Approx. 18 mm thick PP tabletop</li> <li>Overall Dimensions:         <ul> <li>Width</li> <li>Approx. 1,200 mm</li> <li>Height</li> <li>Approx. 800 mm</li> <li>Work Surface Width</li> <li>Approx. 750 mm</li> </ul> </li> <li>Front Window: 5 mm tempered glass sash, smooth movement, can stay in any position</li> <li>Base Cabinet: Double-door base cabinet in 2 groups with adjustable shelves, PP or equivalent with acid and heat resistance</li> <li>Variable air volume (VAV) System:         <ul> <li>VAV system with VAV valve</li> <li>Intelligent control panel (lighting/power/fan switch, display of face velocity, sash height, air volume, etc.)</li> </ul> </li> <li>Ducting System with following features should be provided:         <ul> <li>From ground floor to rooftop of approx. four-story building (~80 ft)</li> <li>Exhaust fans mounted on roof with duct under negative pressure</li> <li>Airflow: Approx. ≥ 250 CFM, reduced noise</li> </ul> </li> <li>Power Supply: 230 V, 50 Hz</li> <li>Warranty: Minimum 5 years for complete setup</li> </ul>	1	

			cup sink, LED lighting, he der coating and corrosion ag base) are preferred.  nt: Product catalog must be brand name, country of cospecifications.  e for the complete instance site to ensure proper open demonstration and training	nigh-quality copper water and resistance surface, and 230 be provided showing origin, and confirmation of allation, commissioning, and eration in accordance with the			
8	Cell Counting	Measurement time	< 3 sec.		1	1	
	Unit	Camera	5 MP CMOS				
			Mammalian cells	Organoids			
		Cell diameter range, µm	4 to 70 μm	20 μm to 200 μm			
		Counting range mm × mm	$5 \times 10^4$ to 1	$.0 \times 10^7 \text{ cells/mL}$			
		Compatibility	Reusable and disposable counting chambers: 0.1 mm	Reusable and disposable counting chambers: 0.1 or 0.2 mm	-		
		Sample volume	10 μL	10 μL or 20 μL chamber permitting			
		Field of view	1.5 × 1.5 mm	1.5 × 1.5 mm			
		Magnification	200×	100×			

	Image resolution	2048 × 1536	1536 × 1536
	Data export	Via USB flash drive	
	Exported format	PNG	
	Operating environment	5°C to 40°C, 20% to 95	% humidity
	Connectivity	The device should be at with a software applicat	ble to connect to a computer tion
	Included with the instrument	- Counting software	.T
	Image of cells available	-Trypan blue 50–100 m Online image processin	
	resolution	The ability to accurately	y count as small as 4 μm.
	Documents	Above mentioned speci mentioned in the original	fications should be al manufacturer literature
	Installation, Demonstration, and Training		monstration and training hnical personnel from the
	Manufacturer Authorization	Original manufacturer The authorization letter	
	Warranty	02-years manufacturer v	warranty

		Accessories and Spare Parts Availability		ne availability of all accessories and a minimum of 5 years after purchase			
		Product experience		uld have minimum of 08 years' elling the quoted similar products in ch proof)			
		Brand name, Product Catalog, Car Requested specification should be					
		If you fail to fulfill the requested swrong specification] the equipment university.		he university [equipment supply with ted after goods delivery to the			
9	Compound Microscope with Camera Head	Observation method Optical system		Bright-field, Simple polarized and Dark-field (Optional) Infinity Optical System (IOS)	1		
		Head Interpupillary distance		Trinocular, 30° inclined, 360° rotating 48–75 mm			
		Dioptric adjustment		On left tube			
		Eyepieces		10×/20 mm, Higher eye point with fixing screws			
		Nose piece		Quadruple			
		Objective type		Infinity-corrected Plan Achromat			
		Parfocal distance		45 mm			
		Standard objectives		4×/0.10, W.D. 16.8 mm 10×/0.25, W.D. 5.8 mm 40×/0.65, W.D. 0.43 mm 100×/1.25 (Oil), W.D. 0.13 mm			

Focusing System	Coaxial coarse and fine focus
Fine resolution	
	4 μm
Fine total travel (per single rotation)	0.4 mm
Fine graduations	100
Coarse total travel (mm)	18
Stage Dimensions	150 × 139
Stage XY Moving range (mm)	$75 \times 33$
Vernier scale accuracy (mm)	0.1
Condenser Type	Single-position, Centrable Abbe Condenser, focusable by rack and pinion
Condenser Numerical aperture (N.A.)	1.25
Transmitted Illumination	Köhler illumination, Long-life LED light source (>65,000 hours)
Light source power (W)	Approx. 3.6
Camera Head Resolution	≥10 MP CMOS sensor
Camera Connectivity	USB 3.0 / HDMI
Camera Software	Compatible with Windows/Mac/Linux, supports image capture, measurement, annotation, and video recording
Frame Rate	≥30 fps at full resolution
Stage Holder	Double slide holder with spring
	clip
Illumination Control	Adjustable intensity, color
Anti funcal Protection	temperature ~4500–5000 K
Anti-fungal Protection	On optical components (eyepieces, objectives, prisms, tube lens, etc.),

T		1 '.1 .' C 1 .'
		treated with anti-fungal coating
		suitable for use in humid/tropical
		environments.
	Polarization Accessories	Polarizer and analyzer (included or
		optional)
	Dark-field Accessories	Dark-field condenser or slider
		(optional)
	Accessories Supplied	Immersion oil, dust cover, power
		cord, spare fuse/LED driver
		(optional)
	Compliance	CE and ISO certified; meets
		electrical safety standards
	Power Supply	230V/50Hz
	Wannanta	Should have 10-years Manufacturer
	Warranty	Warranty
	User reference list	More than 5 years
		Wiole than 5 years
	A manufacturer Authorization Letter should be pro	vided
	Brand name, Product Catalog, Catalog page and Mo	odel no should be available.
	Requested specification should be stated in the Cata	
	If you fail to fulfill the requested specification by t	
	with wrong specification] the equipment would be	
	university.	

10	Stereo	Observation method and Optical system	Brightfield, Greenough
	Microscope with Camera	Head	Trinocular, 45° inclinations
	Head		360° rotating
		Interpupillary distance (mm)	50–76 mm
		Dioptric adjustment	±5 On both eye tubes
		Eyepieces	10x, Field of View ≥ 22 mm
			anti-fungal treated
		Objective type	Achromatic with anti-fungal
			treatment
		Zoom type	Parfocal achromatic
		Standard Magnifications	At least 6.5x – 45x with click stops
		Working distance	≥ 100 mm
		Zoom ratio	≥ 6.5:1
		Focusing System	Coarse and fine
		Stage	White and black diffusion plate,
			diameter ≥ 95mm, with specimen
			clips
		Illumination (Transmitted light)	≥60 LEDs
		Intensity (Lux)	≥7500 Lux
			LED light with double gooseneck
		Illumination (Incident light)	arms
		Intensity (I yay)	≥150,000
		Intensity (Lux)	
		Max. required power (W)	≥10 W

Filters	At least green and blue filters – Ø ≥ 55 mm
USB Camera resolution at least (MP)	6 MP or higher
Camera resolution (n° of pixels: W x H)	≥3000 × 2000
Color / Monochrome	Color
Sensor Size	1/1.8" or larger
Sensor Technology	CMOS
Frame rate full resolution (fps)	$\geq$ 25 fps at resolution $\geq$ 3000 $\times$ 2000
Exposure time	$0.1 \text{ msec} - \ge 10 \text{ sec}$
IR filter range (nm)	380-650 (IR – cut filter or equivalent)
Camera accessories	Must include at least calibration slide and a USB cable (minimum
Camera Software	1.8 m preferred) Image analyzing software Should be supplied free of charge from the same manufacturer
Power Supply	230V/50Hz
Warranty	Should have 10-years Manufacturer Warranty
User reference list	More than 5 years
A manufacturer Authorization Letter should be pro	ovided

		Brand name, Product Catalog, Catalog page and Model no should be available.  Requested specification should be stated in the Catalog page and product web site.		
		If you fail to fulfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.		
11	Mini Centrifuge	The system should be capable of accommodating $12 \times 1.5$ mL tubes	2	
		The system should have a maximum speed of 14,000 rpm		
		Rotor should be made of aluminium for better transition of temperature and could be		
		autoclaved (121°C for 20 min)		
		System should possess a separate short spin key for brief spin		
		Rotor and lid should be chemically resistant		
		System should have an air flow which minimizes sample heating during the run		
		System should have an optional rotor for PCR tube strips with aluminum rotor lid		
		System should have very minimal acceleration and deceleration times		
	System should have noise levels <52 dB for quite operation in workplace			
		Instrument should be European CE Certified		
		A manufacturer Authorization Letter should be provided		
		Brand name, Product Catalog, Catalog page and Model no should be available. Requested specification should be stated in the Catalog page and product web site.		
		Warranty: Should have Two-years Manufacture warranty		

		If you fail to fulfill the requested specification by t with wrong specification] the equipment would be the university.	v - 1 1 1 1 v		
12	Portable pH Meter	The system should be portable		2	
		supplied with a gel-filled pH electrode with a built-in temperature sensor that tests pH and temperature simultaneously, a 3 ft cable with BNC/RCA connector			
		Automatic temp compensation (ATC).			
		The junction composed of ceramic and fiber filaments efficiently reduces junction clogging. And sensor shield protects the sensitive glass membrane from accidental damage			
		Display - LCD with backlight is required			
		Hold and Ready functions should be available,			
		Measuring Range - pH	0.00 to 14.00 pH		
		Resolution - PH	0.01/0.1		
		Accuracy - pH	±0.01 pH or better		
		Measuring Range - mV	±2000mV		
		Resolution - mV	1mV		
		Accuracy - mV	±0.1%		
		Temperature measuring range	0 to 100°C		
		Temperature Resolution	0.1°C or better		
		Temperature Accuracy	±0.5°C or better		

The meter should have a 1-3 point calibration facility for pH The meter should have a self-diagnosis facility that ensures pH calibration will be performed correctly and guides you on how to fix common problems IP class - IP 57 or better ideal for use in harsh environments. The large backlit LCD displays The meter should be compatible to be used in the field and laboratory with a foldable stand The meter should be supplied with Standard Solutions (pH 4,7, and 10) 50ml, manual, Batteries, screwdriver, field carrying case Product certificates - CE / RoHS Quality Certificates - ISO9001:2015 preferred A manufacturer Authorization Letter should be provided Brand name, Product Catalog, Catalog page and Model no should be available. Requested specification should be stated in the Catalog page and product web site. Should have a one-year manufacturer's warranty If you fail to fulfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the

university.

13	Laboratory Refrigerator	Type	Laboratory Type Bottom Freezer Refrigerator	3	
	with Freezer	Refrigerator Capacity (L)	350–360 L		
		Compressor	Inverter Compressor		
		Control unit	Digital Temperature Control		
		Freezer Capacity (L)	150–200 L		
		Temperature	Refrigerator: 2–8°C Freezer: -20°C or less		
		Locking	Should be able to lock the freezer		
		Mechanism	Anti-bacterial Bacterial Treatment System		
		Refrigerant	R-600a		
		Warranty	Should have 03-years Manufacturer warranty		
		Brand name, Product Catalog, Catalog page and M Requested specification should be stated in the Catalog.			
		If you fail to fulfill the requested specification by the wrong specification the equipment would be reject university.			
14	Orbital	Туре	Bench-top platform shaker	1	
	Shaker	Shaking features	Advance dual shaking features		
		Display	On-touch control		
		Motion Type	Orbital or reciprocal motion selectable [Operating both motion types]		
		Accuracy	±1 rpm (at 100 rpm)		
		Speed Range	10~300 rpm		

Shaking throw () Timer Maximum load Power Platform (W×D) Flask capacity Display and control Manufacturer authorization  Warranty Accessories and Spare Parts Availability  Product experience  Brand name, Product Catalog, Catalog page and M Requested specification should be stated in the Cat If you fail to fulfill the requested specification by the	alog page and product web site.
If you fail to fulfill the requested specification by the wrong specification the equipment would be reject university.	ne university [equipment supply with

	Ι		
15	Lux meter	Ranges	40, 400, 4000, 40,000, 400,000 lux 1
		Resolution	1 lux / 0.01 Fc
		Accuracy	±3% rdg + 0.5% FS
		Overload indicator	OL = Overload Rate
		Operating temperature	0 - 40°C
		Light sensor Silicon photo diode	Display 5-digit
		LCD display Power	6 AAA Batteries
		Manufacturer Authorization	Original manufacturer The authorization letter should be provided
		Warranty	One-year Manufacture warranty
		Brand name, Product Catalog, Catalog page and Markequested specification should be stated in the Catalog you fail to fulfill the requested specification by the wrong specification] the equipment would be reject university.	alog page and product web site ne university [equipment supply with

16	Culture Racks	Height	77 Inches	3		
		Width	24 Inches			
		Length	47.5 Inches			
		Lights for each Rack	16 Led T8 Tube Bulbs			
		Made out of 1" X 1" heavy duty steel with epoxy p	owder coating			
		15 inches in-between shelves	15 inches in-between shelves			
		5-mm tempered glass shelf with proper support				
		5-inch caster wheel (heavy duty with lock)				
		Four shelves with LED lighting not less than 3000	Four shelves with LED lighting not less than 3000 lux on the selves.			
		4 LED light per shelves				
		Gang switch to control the light of each self separat	Gang switch to control the light of each self separately			
		Manufacturer Authorization : Original manufacture provided	Manufacturer Authorization : Original manufacturer; The authorization letter should be provided			
		Warranty: Five-years Manufacturer warranty				
		Brand name, Product Catalog, Catalog page and Me Requested specification should be stated in the Cata If you fail to fulfill the requested specification by the wrong specification] the equipment would be rejected.	alog page and product web site ne university [equipment supply with			
		university.				

17	Drying Oven	Capacity	90 L–100 L	1	
		Temperature range	50°C – 250°C		
		Temperature accuracy	±2.0°C at 100°C minimum		
		Temperature control accuracy	±0.5 minimum		
		Interior	Fully Stainless Steel		
		Exterior	epoxy coated for better heat resistance		
		Adjustable Shelves	25 mm steps		
		Should have a see-through window to observe sam	ple when oven is at operation		
		Should have PID temperature controller for better accuracy with industrial grade heaters (preferred)			
		Should have a safety function for over temperature and electric overload			
		Should have function of automatically heater and bopened	plower cutoff when the door is		
		Warranty	One- year Manufacture warranty		
		Manufacturer Authorization	Original manufacturer The authorization letter should be provided		
		Brand name, Product Catalog, Catalog page and M Requested specification should be stated in the Cat			
		If you fail to fulfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.			

18	Kjeldhal Digestion Unit	Application	Determination of nitrogen and protein	1	
	& Distillation Unit	Number of samples	12 Nos x 300 mL		
	Omt	Display	LCD or LED		
		temperature range	[23°C-35°C]- Above 420°C		
		Temperature accuracy	at least ± 1 °C		
		Timer range	1 min to minimum of 950 min		
		Selectable programs	should have at least 10 programs with up to 5 segments each		
		temperature control & heating modes	PID temperature control with linear and curve		
		Main body constructed Material	Epoxy-painted stainless steel for higher chemical resistivity		
		Power consumption	should be less than 4000 W		
		Power supply	230 V/50 Hz		
		System should be completed with four Items	<ul><li>1.Support System</li><li>2.Water jet vacuum pump</li><li>3.Simpler neutralization</li><li>4.Drip tray design</li></ul>		
		Distillation system	Semi-automatic distillation system with automatic addition of sodium hydroxide and water		
		Constructed Material	corrosion-resistant technopolymer material or Suitable material		
		Display	3" or above wide color touch screen (letters should be clearly visible)		
		Reproducibility (RSD)	should be ≤ 5%		
		The detection limit(N)	should be at least 0.1 mg – 240mg		
		Power supply	230 V - 50 <i>I</i> 60 Hz		

Should be steam flow control	
Lever operation of tube insertion and remov	val
It should consist of a maintenance-free, cherglass condenser for unmatched performance. The recovery ≥ 99.5 % at nitrogen levels b	e.
Fast distillation (less than 10 minutes to col	lect 100 mL of distillate)
Installation, Demonstration, and Training	On-site installation, demonstration and training should be done by a technical personnel from the local supplier company
Manufacturer Authorization	Original manufacturer The authorization letter should be provided
Warranty	2 - years manufacturer warranty
Accessories and Spare Parts	Guarantee of the availability of all
Availability	accessories and spare parts for a minimum of 10 years after purchase of equipment
Product experience	The bidder should have minimum of 08 years' experience in selling the quoted similar products in Sri Lanka (attach proof)
Brand name, Product Catalog, Catalog page Requested specification should be stated in	and Model no should be available.
	on by the university [equipment supply with

19	Soil Hydrometer	Range	0.995 to 1.038 g/cm³ (or 995 to 1038 1 kg/m³)
	(ASTM 152H)	Accuracy	±0.001 g/mL, with divisions of 0.001 g/mL
		Calibration Temperature	27°C (If calibrated at 20°C, Temperature correction chart is needed)
		Material and Construction	Clear, durable glass (typically borosilicate glass); Resistant to standard dispersing agents (e.g., sodium hexametaphosphate) and corrosion
		Dimensions: approximately	Length: Approx. 280 – 300 mm  Bulb diameter: ~25 – 35 mm, depending on design.  Stem diameter: ~6 – 10 mm.
		Ballast	A ballast (like steel shot) is preferred to help them float correctly and maintain stability.
		Scale units	Graduated scale with fine increments (typically 1 unit or 0.0005 SG).  Readings usually marked in g/cm³ or kg/m³
		Warranty	one - years manufacturer warranty
		Brand name, Product Catalog, Catalog page Requested specification should be stated in t If you fail to fulfill the requested specification wrong specification] the equipment would be university.	he Catalog page and product web site. on by the university [equipment supply with

20	Gel	Should be a complete system with		1		
	Electrophorosis	•Electrophoresis tank & lid				
	Unit	Option 1				
		• 100×70mm UV tray				
		• 100×100mm UV tray				
		Option 2				
		• 120×80mm UV tray				
		• 120×120mm UV tray				
		Option 1				
		•	• 16 sample combs, 1 mm thick (2 combs)			
		Option 2	,			
		• 30 sample combs, 1.5 mm thick (2	2 combs)			
		• UV tray dams, 2pcs	• • • • • • • • • • • • • • • • • • • •			
		• Black & red electrophoresis cable	• • •			
		-	Option 1			
		Unit Dimensions	Approximately: 220×125×90 mm			
			Option 2			
			Approximately: 250×150×120 mm			
			Two tray options should be available:			
		Active Gel Size (w x l) /	Option 1			
		Corresponding Gel Tray	100×70mm & 100×100mm			
			Option 2			
			120×80 mm UV tray & 120×120mm UV tray			
		Sample Capacity	Maximum 100 samples or more			
		Tank Buffer Volume	300 ml - 350 ml with Buffer saving options			
			Injection molded construction			
		Construction	Durable, leak-proof environment for complete			
			safety and long life			
			Cassette Type Electrode			
		Type Electrode	Made of 99.99% corrosion-resistant pure			
			platinum			

Electrical Safety	The lid can only be fastened in one way, and upon its removal, power should be disconnected from the buffer chamber.
Output Voltage / Inc	Step1:10 - 300V / 1V
Output Voltage / Inc	Step2: 10 - 300V / 1V
Output Cumont / In a	Step1:10 - 400mA / 1mA
Output Current / Inc	Step2: 10 - 400mA / 1mA
Max. Watt	60–80W
Output Type	Constant voltage or constant current
Control	Microprocessor controller
Terminal Pairs	2 pairs
Timer	999 (min) with alarm/ Continuous (set=0)
Operation Temperature	4°C-40°C
Dimension	Approx. 5.5"×7.5"×3.3" (Approx. 140 × 191 × 84 mm)
Material	Polycarbonate housing and aluminum base plates
Rated Voltage	100 - 240 V, ~50-60Hz, 2A
Program	2-STEP Program
	STEP1( V: 300V ); STEP2( V: 300V )
	STEP1( A: 16mA ); STEP2( A: 24mA )
Presetting value	STEP1( T: 15min ); STEP2( T: 120min )
	If time is set 0, system will keep running until user manually stops.

			not prod Two-ye Origina authoriz provide og page a tated in the	and Model no should be available.  The Catalog page and product web site.  The by the university [equipment supply with the rejected after goods delivery to the		
21	Insect Rearing Cabinet	Temperature range Temperature resolution		0 ~ 70°C ± 0.1°C	1	
	Cuomer	Temp. Uniformity				
		•		at 25°C: ±1.5°C		
		Temperature fluctuation		at 25°C: ±0.5°C		
		Illuminance		0~40,000 Lux		
		Volume		800L-1,000L		
		Total growth area		Approx. 1. 4–1.6 m <sup>2</sup>		
		Growth height		Approx. 40–50 cm		
		Display type		4.5 – 5 inch LCD touch screen		
		Adjustable lighting		Full spectrum LED light, each layer of lighting panel can be individually adjusted		
		Control system		Intelligent environmental control system capable of automatically monitoring and compensating for changes in temperature,		
				humidity, and light intensity to maintain		
				stable rearing conditions. The system		
				must be programmable and provide real- time adjustments.		
				ume aujustinents.	L	

light source	adjustable height partition type light source
Support for viewing	alarm records, data, and curves
Door system	Double door
Castor wheels	Should be available
Supports storage of 100000 records and USB data export	Should be available
Multi-level password management	Should be available
Number of layer illumination shelves	Minimum 2, expandable up to 4 positions
Product features	Water storage tank & atomized humidification
The humidity control range	50 ~ 95% RH
Humidity fluctuation	±3~7%
Power	3500–3700 W
Installation, demonstration and training	On-site installation, demonstration and training should be done by a technical personnel from local supplier company
Manufacturer authorization	Original manufacturer authorization letter should be provided
Warranty	2-years manufacturer warranty
Accessories and spare parts availability	Guarantee of availability of all accessories and spare parts for a minimum of 10 years after purchase of equipment
Brand name, Product Catalog, Catalog page Requested specification should be stated in	e and Model no should be available.

		If you fail to fulfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.			
22	Bench Top pH Meter	Measuring Parameters	pH, mV, Temperature, (Stirrer)	1	
	(Type 1)	Range [pH & Temp.]	-2.00~16.00 pH, 0~110 °C		
		Accuracy [pH & Temp.]	$\pm 0.01+1$ digit, $\pm 0.2+1$ digit		
		Resolution [pH & Temp.]	0.01 pH, 0.1 °C		
		Compensation[pH]	ATC: 0~100 °C		
		Standard Accessories	pH glass electrode, Conductivity cell, DO probe, Temp. Probe, Membrane cap × 2 pcs, Electrolyte × 20 ml, Standard solution, Electrode holder, Software and USB cable, DC/AC adaptor, instruction manual, Gift box, Stirrer		
		Display	LCD display		
		Data Output	PC directly via USB		
		Memory function	recalls up to 150 points		
		Manufacturer Authorization	Original manufacturer authorization letter should be provided		
		Warranty	Should have One-year Manufacture warranty		
		Brand name, Product Catalog, Catalog page Requested specification should be stated in			

		If you fail to fulfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.		
23	Bench Top pH Meter (Type 2)	<ul> <li>Specify Make, Model, Country of Origin and Country of Manufacture</li> <li>Digital display with fast and stable readings</li> <li>Measurement parameters: pH, ORP, Temperature</li> <li>Integrated stirring platform with magnetic stirrer</li> <li>Automatic temperature compensation (ATC)</li> <li>Range: 0 – 110°C</li> <li>Accuracy: ±0.2°C + 1 digit</li> <li>Resolution: 0.1°C</li> <li>ORP (Oxidation Reduction Potential)</li> <li>Range: -200 to +1999 mV (sub-ranges: 199.9 ~ 499.9 mV, 500 ~ 2000 mV)</li> <li>Accuracy: ±2 mV + 1 digit</li> <li>Resolution: 0.1 / 1 mV</li> <li>Compensation: Not Applicable</li> <li>pH</li> <li>Sensor: pH Epoxy body electrode, Double Junction</li> <li>Additional electrodes: 03 spare pH glass electrodes included</li> <li>Accessories (to be supplied):</li> <li>Built-in temperature probe</li> <li>pH buffer solutions: pH 7.00 (100 mL), pH 4.01 (100 mL), pH 10.01 (100 mL)</li> <li>Electrode cleaning solution</li> </ul>	1	

		pH electrode clamp and rod     02 magnetic stirring bars     AC/DC adaptor     Instruction manual  Warranty & Certification:      Minimum 2 years warranty     Manufacturer's authorization	a certificate required.		
24	Distilled Water Plant	Capacity	4–5 L/hr	1	
		Heater Power	3–5 KW		
		Heater Material	Special Alloy 800 steel or Suitable Alloy		
		Exterior	Abrasion resistance & heat resistant material (Epoxy)		
		Power	220-240 V ; AC 50 Hz		
		Thermostatic cut-off for low water	level with indication		
		Degassing of carbon dioxide via co	ndenser vent		
		Easily openable stainless steel evap	orating (boiling) chamber for cleaning		
		Warranty	Should have at least 1-year manufacturer warranty		
		Manufacturer Authorization	Original manufacturer authorization letter should be provided		
			log page and Model no should be available. stated in the Catalog page and product web site		
			pecification by the university [equipment supply be be because the control of the		

25	Gas Cooker	<ul> <li>Number of burners: 2</li> <li>Burner material: Cast iron</li> <li>Body/surface material: Stainless steel</li> <li>Trivets: Durable enamel-coated</li> <li>Warranty: Minimum 1 year</li> <li>Country of manufacture: Specify</li> </ul>	1	
26	Blender	<ul> <li>Type: Mixer Grinder / Wet and Dry Grinder for domestic use</li> <li>Motor power: 550 W</li> <li>Number of jars: 05</li> <li>Blade material: Hardened stainless steel</li> <li>Control type: Piano-type button switches</li> <li>Safety features: <ul> <li>Double safety interlocking system</li> <li>Original oil seal protection</li> <li>Circuit breaker system</li> </ul> </li> <li>Accessories: Flow breaker jar, juice extractor</li> <li>Warranty: <ul> <li>Minimum 5 years (motor)</li> <li>Minimum 1 year (unit)</li> </ul> </li> <li>Country of manufacture: Specify</li> <li>Documentation: Product catalog must be provided showing approximate specifications, and confirmation that the equipment meets the requirements above</li> </ul>	1	
27	Refrigerated Centrifuge	<ul> <li>Technical Specifications</li> <li>Temperature Range: Approx20°C to +40°C with efficient cooling systems</li> <li>Capacity: 4 × 1000 mL (compatible with 25 mL and 50 mL centrifuge tubes)</li> <li>Maximum RCF: Approx. 25,314 × g</li> <li>Maximum Speed: 20,000 rpm</li> <li>Memory: At least 6 programs with direct access</li> <li>Profiles (Acceleration/Braking): 9 acceleration / 10 braking levels</li> <li>Timer: 9 hours 99 minutes plus HOLD function</li> <li>Motor Type: Direct-drive, brushless induction, low-profile</li> </ul>	1	

		<ul> <li>Noise Level: &lt;61 dBA</li> <li>Power Requirements: 230 V, 60 Hz, 12 A</li> <li>Safety Protection features:         <ul> <li>Imbalance detection, automatic rotor identification, and automatic lid opening after a run</li> </ul> </li> <li>Dimensions (L x H x W)- approximately 27 × 22 × 14 inches</li> </ul>		
		Certifications & Compliance		
		<ul> <li>IVD Compliant</li> <li>IEC 61010-1, IEC 61010-2-202, IEC 61010-2-101</li> <li>CSA Certified Biosafety</li> <li>CE marked</li> <li>UL listed</li> </ul>		
		Warranty & Documentation		
		<ul> <li>Warranty: Minimum 5 years</li> <li>Product catalog must be provided showing approximate specifications, country of origin, and confirmation that the equipment meets the requirements above</li> </ul>		
		The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.		
		The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.		
28	Bench Top Homogenizer	<ul> <li>Type: Digital table homogenizer (benchtop model)</li> <li>Includes: Stand</li> <li>Safety: Overheat protector</li> <li>Speed Range: Up to 20,000 rpm</li> </ul>	1	
		• Capacity: 0.3 – 3,000 mL		

		<ul> <li>Power: 250 W</li> <li>Power Supply: 230V, 50/60 Hz</li> <li>Warranty: Minimum 2 years</li> <li>Documentation: Product catalog must be provided showing approximate specifications, country of origin, and confirmation that the equipment meets the</li> </ul>		
		requirements above  The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.  The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.		
29	Automatic Laboratory Water Distiller	<ul> <li>Distillation capacity: 4-7 L/h. Continuous automatic operation with adjustable water flow control.</li> <li>Inner chamber and heating element made of stainless steel or equivalent; housing made of stainless steel with epoxy or equivalent coating.</li> <li>Compact design with easily removable parts for cleaning.</li> <li>Produces laboratory-grade distilled water of approximately Type III &amp; Type IV quality.</li> <li>Water Quality Specifications (Approx.)</li> <li>✓ Conductivity: &lt; 1.5 µS/cm at 25 °C</li> <li>✓ Resistivity: 0.5 – 2 MΩ·cm at 25 °C</li> <li>✓ pH: 5–7 at 25 °C</li> </ul>	2	
		<ul> <li>Control panel with general power switch and indicator lights.</li> <li>Adjustable water feed connection.</li> <li>Cooling water drain outlet adaptable to containers.</li> <li>Safety Features:  ✓ Automatic cut-off of heating element in case of cooling water failure, with auto-restart when cooling is restored.</li> </ul>		

		<ul> <li>Solenoid valve: Cut off water when there is no power.</li> <li>Overheating cut-off</li> <li>Silicone gasket sealing.</li> <li>Earthed electrical system.</li> <li>Optional accessory: Flow limiter for optimized water usage.</li> <li>Power: 230 V, 50/60 Hz</li> <li>Compliance with applicable safety standards and directives (e.g., EN 61010-1, EN 61326-1, EU Directives 2011/65/EU, 2012/19/EU, 2014/30/EU, 2014/35/EU, or equivalent)</li> <li>Warranty: Minimum 3 years</li> <li>Installation and calibration</li> <li>Documentation: Product catalog must be provided showing approximate specifications, country of origin, and confirmation that the equipment meets the requirements above.</li> <li>The supplier shall be responsible for the complete installation, commissioning, and calibration of the equipment at the site to ensure proper operation in accordance with the required specifications.</li> <li>The supplier shall provide on-site demonstration and training to the designated personnel on the proper operation, routine maintenance, and basic troubleshooting of the equipment.</li> </ul>		
30	Stainless Steel Milk Containers (5L)	<ul> <li>Material: Corrosion-resistant stainless steel (Grade 316 or equivalent), smooth and polished interior</li> <li>Capacities: 5 L</li> <li>Airtight lids or covers</li> <li>Smooth interior surface for easy cleaning and hygienic storage</li> <li>Handles for easy carrying</li> <li>Documentation: Product catalog must be provided showing approximate specifications, brand name, country of origin, and confirmation of compliance with requested specifications</li> </ul>	2	

31	Stainless Steel Milk Containers (10L)	<ul> <li>Material: Corrosion-resistant stainless steel (Grade 316 or equivalent), smooth and polished interior</li> <li>Capacities: 10 L</li> <li>Airtight lids or covers</li> <li>Smooth interior surface for easy cleaning and hygienic storage</li> <li>Handles for easy carrying</li> <li>Documentation: Product catalog must be provided showing approximate specifications, brand name, country of origin, and confirmation of compliance with requested specifications</li> </ul>	2			
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## **Section VI. Conditions of Contract (CC)**

This Bidding Document is based on the standard bidding document for National Competitive Bidding (NPA/Goods/SBD 01). Section VI will not be provided with this bidding document. Bidders are instructed to refer the Section VI of the standard bidding document (NPA/Goods/SBD 01). The document is available at the website of NPA, www.npa.gov.lk

## **Section VII. Contract Data**

The following Contract Data shall supplement and / or amend the Conditions of Contract (CC). Whenever there is a conflict, the provisions herein shall prevail over those in the CC.

CC 1.1(i)	The Purchaser is: Uva Wellassa University
CC 1.1 (m)	The Project Site(s)/Final Destination(s) is/are: Uva Wellassa University, Passara Road, Badulla
CC 8.1	For notices, the Purchaser's address shall be:
	Deputy Bursar Uva Wellassa University, Passara Road, Badulla. 055-2226475/055-2226633
CC 11	Goods shall be supplies in compliance with the quality and the specification given.
CC 15.1	CC 15.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:
	For Goods offered within Sri Lanka Payment shall be made in Sri Lankan Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.  a) No Advance payment applicable for this contract  b) Up to a maximum of ninety (90) percentage of the Contract Price, shall be paid on receipt of the Goods and confirm by the evaluation committee.  c) Ten (10) percentage of the Contract price will be hold as Retention for a period of 12 months from the date of commissioning of equipment  d) The Retention shall be paid on completion of Twelve (12) months. During that Period supplier shall correct all defects and confirmed by the purchase or his agent.
CC 17.1	A Performance Security – 10%  Performance security may be in any of the following way  (a) A Bank guarantee issued by a reputed bank operated in Sri Lanka.  (b) Cash deposit at the Shroff Counter of the University
CC 26.1	The liquidated damage (Late Delivery) shall be: If the supplier fails to deliver any or all of the goods by the date(s) specified above the purchaser may deduct from the payment a sum equivalent to 0.05% of the delivered price of the delayed good, for each day of delay.
CC 26.1	The maximum amount of liquidated damages shall be: 10 % from the contract sum.
CC 27.3	The warranty shall remain valid for a period of time specified with the specifications.
CC 27.6	The supplier shall remedy the defects within 3 Months from the date of information by the purchaser.

# **Section VIII. Contract Forms**

# **Table of Forms**

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### **Contract Agreement**

#### THIS CONTRACT AGREEMENT is made

the [ insert: number] day of [ insert: month], [ insert: year ]. BETWEEN

- (1) [Insert complete name of Purchaser], a [insert description of type of legal entity, for example, an agency of the Ministry of................................. or corporation and having its principal place of business at [insert address of Purchaser] (hereinafter called "the Purchaser"), and
- (2) [Insert name of Supplier], a corporation incorporated under the laws of [insert: country of Supplier] and having its principal place of business at [insert: address of Supplier] (hereinafter called "the Supplier").

WHEREAS the Purchaser invited bids for certain Goods and ancillary services, viz., [insert brief description of Goods and Services] and has accepted a Bid by the Supplier for the supply of those Goods and Services in the sum of [insert Contract Price in words and figures, expressed in the Contract currency (ies)] (hereinafter called "the Contract Price").

#### NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

- 1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
- 2. The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:
- (a) This Contract Agreement
- (b) Contract Data
- (c) Conditions of Contract
- (d) Technical Requirements (including Schedule of Requirements and Technical Specifications)
- (e) The Supplier's Bid and original Price Schedules
- (f) The Purchaser's Notification of Award
- (g) [Add here any other document(s)]
- 3. This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above.
- 4. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
- 5. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Democratic Socialist Republic of Sri Lanka on the day, month and year indicated above.

For and on behalf of the Purchaser

Signed: [insert signature]

in the capacity of [insert title or other appropriate designation]

in the presence of [insert identification of official witness]

For and on behalf of the Supplier

Signed: [insert signature of authorized representative(s) of the Supplier]

in the capacity of [insert title or other appropriate designation]

in the presence of [insert identification of official witness]

## **Performance Security**

[The issuing agency, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated] [Issuing Agency's Name, and Address of Issuing Branch or Office]
Beneficiary: Vice Chancellor, Uva Wellassa University, Passara Road, Badulla
Date:
Performance Bid Guarantee No.:
We have been informed that [Name of Supplier] (hereinafter called "the Supplier") has entered into Contract No [Reference number of the contract] dated with you, for the Supply of [name of contract and brief description] (hereinafter called "the Contract").
Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required. At the request of the Supplier, we [name of Agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of
[Amount in figures] () [amount in words], such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein. This guarantee shall expire, no later than the day of, 20 [Insert date, 28 days beyond the scheduled completion date including the warranty period] and any demand for payment under it must be received by us at this office on or before that date.
[Signature(s)]

### **Guarantee for Advance Payment**

[The issuing agency, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated.]

Date: [insert date (as day, month, and year) of Bid Submission] ICB No. and title: [insert number and title of bidding process]

[issuing agency's letterhead]

Beneficiary: Vice Chancellor, Uva Wellassa University, Passara Road, Badulla

ADVANCE PAYMENT GUARANTEE No.: [insert Advance Payment Guarantee no.] We, [insert legal name and address of issuing agency], have been informed that [insert complete name and address of Supplier] (hereinafter called "the Supplier") has entered into Contract No. [insert number] dated [insert date of Agreement] with you, for the supply of [insert types of Goods to be delivered] (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, an advance is to be made against an advance payment guarantee.

At the request of the Supplier, we hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of [insert amount(s)in figures and words] upon receipt by us of your first demand in writing declaring that the Supplier is in breach of it obligation under the Contract because the Supplier used the advance payment for purposes other than toward delivery of the Goods.

It is a condition for any claim and payment under this Guarantee to be made that the advance payment referred to above must have been received by the Supplier on its account [insert number and domicile of the account]

This Guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the Contract until [insertdate].

[Signature(s) of authorized representative(s) of the issuing agency]

## **Check List**

		Bidder's Offer					
No	Required Specification	Confe	ormity	D N.			
		Yes	No	Page No	Remark		
1	Company Profile						
2	<b>Business Registration</b>						
3	VAT Registration						
4	List of Clients						
5	Past Three Year Experience in the industry						
6	Manufacturer Authorization						
7	Public Contract Act						
8	Bid Security						
9	Forms of Bids						
10	Price Schedule						
11	Bid Document Fee (Non – Refundable)						
12	Financial Statement						
	Status						

"Bidders mu	st fill above Check List"
Duly authorize	ed for signed on behalf of(Name of the Bidder)
Name	:
Signature	:
Designation	÷