

**DEMOCRATIC SOCIALIST REPUBLIC OF
SRI LANKA**



UVA WELLASSA UNIVERSITY

**SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY
EQUIPMENT FOR UVA WELLASSA UNIVERSITY
(Package I)**

UWU/G/NCB/C/24/02

NATIONAL COMPETITIVE BIDDING

Bid Opening On	23 rd September 2024 - 2.30 p.m.
Bid Validity up to	91 days from 23 rd September 2024

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

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INVITATION FOR BIDS
SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR
UVA WELLASSA UNIVERSITY

UWU/G/NCB/C/24/02

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

1. Bidder should have at least three 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. No: 055-2226475, Fax No: 055-2226633), and inspect the bidding documents at the Supplies Division of the University between 9.00 am to 3.00 pm from **02nd September 2024 to 23rd September 2024 and up to 12.30 p.m. on 23rd September 2024.**
3. A complete set of bidding documents in English may be purchased by interested bidders on 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 10,260.00 in cash at the Shroff Counter of the University. The bidder can also download the bidding documents from the University website www.uwu.ac.lk. Those who are obtaining bidding documents from the University website should submit the complete documents along with a Bank Draft drawn in favour of the “Vice Chancellor, Uva Wellassa University” for LKR 10,260.00 as non-refundable fee or the payments could be made to any branch of Bank of Ceylon, to the Uva Wellassa University, Account No:3114820, and the original of the cash receipt/deposit slip to be attached with the bidding documents. The documents may be purchased until **12.30p.m. On 23rd September 2024.**
4. Bids must be delivered to **Chairman, Department Procurement Committee, Uva Wellassa University, Passara Road, Badulla**, on or before **2.00 p.m. on 23rd September 2024** Please indicate the **“SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR UVA WELLASSA UNIVERSITY - UWU/G/NCB/C/24/02”** 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**, valid for 120 days from the date of the bid opening. The Value of the Bid Security shall be **LKR 610,000.00** Pre Bid meeting will be held at **10.00 a.m. 11th September 2024**, In the Board Room of Uva Wellassa University.
6. The bids shall be deposited in the ‘Tender Box’ available in the Registrar’s Office of the University, or sent under Registered Cover to be received before the deadline to the address given in Clause No.5.
7. 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
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 the Section I of the standard bidding document (NPA/Goods/SBD 01). The document is available at the website of NPA, 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 ITB.

[Instructions for completing the Bid Data Sheet are provided, as needed, in the relevant 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 UVA WELLASSA UNIVERSITY
ITB 2.1	The source of funding is: GOSL
ITB 4.4	Foreign bidders are allowed to participate in bidding: Not allowed
	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: 055-2226475 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 bidders including, but not limited to, the following: <ul style="list-style-type: none"> • Business Registration Certificate • VAT Registration Certificate • List of client who use the Products and their contract details • Past 3 years relevant experience in the relevant Industry in Sri Lanka (The bidder should have at least three years of experience in the relevant industry in Sri Lanka and should submit documents to prove experience in the industry.) • Manufacturer's Authorization. • Certificate of Registration under Public Contract Act. • Financial statements
ITB 15.1	The bidder shall quote the local expenditure in Sri Lankan Rupees.
ITB 18.1 (b)	After sales service is: Required

ITB 19.1	The bid shall be valid for : 90 days from 23rd September 2024								
ITB 20.1	Bid shall include a Bid Security in any of following ways (a) A Bank guarantee issued by a reputed bank operated in Sri Lanka. (b) Cash deposit at the Shroff Counter of the University (c) Cash deposit from any branch of Bank of Ceylon, to the Uva Wellassa University, Account No: 3114820, and the cash receipt/deposit slip to be attached with the bidding documents.								
ITB 20.2	The amount of the Bid Security shall be: LKR 610,000.00. Beneficiary: Vice Chancellor, Uva Wellassa University. The validity period 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)	The inner and outer envelopes shall bear the following identification marks: SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY EQUIPMENT FOR UVA WELLASSA UNIVERSITY- UWU/G/NCB/C/24/02								
ITB 23.1	For bid submission purposes, the Purchaser's address is: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Attention</td> <td style="width: 70%;">: Deputy Bursar/Stores & Supplies</td> </tr> <tr> <td>Address</td> <td>: Uva Wellassa University, Passara Road, Badulla.</td> </tr> </table> The deadline for the submission of bids is <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Date</td> <td style="width: 70%;">: 23rd September 2024</td> </tr> <tr> <td>Time</td> <td>: 2.00 p.m.</td> </tr> </table>	Attention	: Deputy Bursar/Stores & Supplies	Address	: Uva Wellassa University, Passara Road, Badulla.	Date	: 23rd September 2024	Time	: 2.00 p.m.
Attention	: Deputy Bursar/Stores & Supplies								
Address	: Uva Wellassa University, Passara Road, Badulla.								
Date	: 23rd September 2024								
Time	: 2.00 p.m.								
ITB 26.1	The bid opening shall take place at: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Address</td> <td style="width: 70%;">: Board Room, Uva Wellassa University, Passara Road, Badulla.</td> </tr> <tr> <td>Date</td> <td>: 23rd September 2024</td> </tr> <tr> <td>Time</td> <td>: 2.00 p.m.</td> </tr> </table>	Address	: Board Room, Uva Wellassa University, Passara Road, Badulla.	Date	: 23rd September 2024	Time	: 2.00 p.m.		
Address	: Board Room, Uva Wellassa University, Passara Road, Badulla.								
Date	: 23rd September 2024								
Time	: 2.00 p.m.								
E. Evaluation and Comparison of Bids									
ITB 34.1	Domestic preference shall not be a bid evaluation factor.								
ITB 35.3(d)	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: (a) Deviation in Delivery schedule: Option 2 _Please refer - CC 26.1 (b) Deviation in 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: The Certificate from a Chartered Electrical Engineer should be produced after the installation								
ITB 35.5	Bidders shall be allowed to quote for one or more lots. [refer to Section III Evaluation and Qualification Criteria]Purchaser will evaluate the bid 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 Requirement. No credit will be given to earlier deliveries, and bids offering delivery beyond this range will be treated as nonresponsive. 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 (Free service & Pay service).

(d) Specific additional criteria: **None**

2. Evaluation Criteria (ITB 35.4):

- 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 whole bid. The local agent shall submit evidence of status, obligations, power of attorney and any other documentary evidence that he is duly authorized and eligible to bid on behalf of the manufacturer.
- b. The bidders should also have previous experience of at least three years in relevant industry in the supply and also technical and financial capability necessary to perform the contract.
- c. Draft service agreement for three year period (after the warranty period) should be submitted.
- d. Bids will be rejected as non- responsive if documentary evidence in proof of above has not been 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. Domestic Preference (ITB 34.1) – Applicable to Ministry of Finance, Public Finance Circular No. 03/2020

5. 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

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: [insert the 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.

Signed: [insert signature of person whose name and capacity are shown]

In the capacity of [insert legal capacity of person signing the Bid Submission Form]

Name: [insert complete name of person signing the Bid Submission Form]

Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]

Dated on _____ day of _____, _____ [insert date of signing]

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;

1	2	3	4	5	6	7	8	9	10
No	Description of Goods or related services	Qty	Unit price (inclusive of duties, sales and other taxes) Excluding VAT	No. Price per line item (Col.3x4)	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)
01. Department of Export Agriculture									
1.01	Dual Beam UV-Spectrophotometer	01							
1.02	Smart Panel	01							
1.03	Analytical Balance	01							
1.04	Portable Freezer with Rechargeable Battery	01							
1.05	Laboratory Microwave Oven	01							
1.06	Top Loading Balance	01							
02. Department of Food Science and Technology									
2.01	Digital hand-held Turbidity meter	1							
2.02	Bench top pH meter	1							
2.03	Laboratory vacuum pump	1							
2.04	Top loading balance	1							
2.05	Fume hood	1							

03. APFT and AQT Labs									
3.01	Micropipettes 100-1000 microliters	6.00							
3.02	Biochemistry Analyzer	1							
3.03	Veterinary ultrasound scanner	1							
3.04	Visual AI gun	1							
3.05	Chaff cutter	1							
3.06	Analytical Balance	1							
3.07	Wax dissecting trays	30							
3.08	Centrifuge Machine	1							
04. Laboratory - Biology Lab/ Department of Science and Technology									
4.01	Heating Mantle								
05. Laboratory - Research Lab/ Department of Science and Technology									
5.01	Binocular Bright field light microscopes	5							
5.02	Thermal Cycler	1							
5.03	Rotary evaporator	1							
06. Laboratory : Micro Electronics/ Department of Science and Technology									
6.01	Digital Multimeter	10							
07.Engineering Workshop/ Department of Science and Technology									
7.01	Digital Vernier caliper	6							
7.02	Welding machine	2							

08. Laboratory : Physics Lab/ Department of Science and Technology

8.01	Digital Multimeter	8							
8.03	Calori meter	4							
8.04	Density KIT	2							

09. Laboratory - Chemistry / Department of Science and Technology

9.01	Drying Oven	1							
9.02	Heating Mantle - 250ml	- 1							
9.03	Heating Mantle - 500ml	- 1							
9.04	Heating Magnetic Stirrer	1							
9.05	Distilled Water Plant	1							
9.06	Analytical Balance	2							
9.07	Top Loading balance	2							

10. Laboratory - Material Lab/ Department of Science and Technology

10.01	Heating Magnetic Stirrer	1							
10.02	Analytical Balance	1							
10.03	Top Loading balance	2							
10.04	Fume Hood	1							
10.05	pH & Conductivity Meter	2							

11. Department of Applied Earth									
11.01	Hydro cyclone	1							
11.02	Laboratory-scale Jig	1							
11.03	Laboratory-scale Froth Flotation Unit	1							
11.04	Magnetic Separator	1							
11.05	Gemological Microscope	5							
11.06	Refractometer	10							
11.07	Calcite Dichroscope	4							
11.08	Diffraction grating spectroscopy	4							
11.09	Electronic Scale	2							
11.10	Light source	1							
11.11	Mechanical Shaker	1							
Total									

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 Wellasa University, Passara road, Badulla

Date: ----- *[insert (by issuing agency) date]*

BID GUARANTEE No.: ----- *[insert (by issuing agency) number]*

We have been informed that -----
[name of the Bidder] (herein after called "the Bidder") has submitted to you its bid dated -----
[date] (herein after called "the Bid") for the execution of -----
----- *[insert name of Contract]* under Contract No. -----

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 figures]* - -----
----- *[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 bidder]*

Name of contract: SUPPLY, DELIVERY AND INSTALLATION OF LABORATORY
EQUIPMENT FOR UVA WELLASSA UNIVERSITY
Contract Identification No: - UWU/G/NCB/C/24/02

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

Contents

1. List of Goods and Delivery Schedule	15 - 21
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1. List of Goods and Delivery Schedule

Line Item No	Description of Goods	Quantity	Final (Project Site) Destination as specified in BDS	Delivery Date ¹		
				Earliest Delivery Date	Latest Delivery Date	Bidder's offered Delivery date [to be provided by the bidder]
01. Department of Export Agriculture						
1.01	Dual Beam UV-Spectrophotometer	01				
1.02	Smart Panel	01				
1.03	Analytical Balance	01				
1.04	Portable Freezer with Rechargeable Battery	01				
1.05	Laboratory Microwave Oven	01				
1.06	Top Loading Balance	01				
02. Department of Food Science and Technology						
2.01	Digital hand-held Turbidity meter	1				
2.02	Bench top pH meter	1				
2.03	Laboratory vacuum pump	1				
2.04	Top loading balance	1				
2.05	Fume hood	1				

03. APFT and AQT Labs						
3.01	Micropipettes 100-1000 microlitres	6.00				
3.02	Photocopier Machine	1				
3.03	Biochemistry Analyzer	1				
3.04	Veterinary ultrasound scanner	1				
3.05	Visual AI gun	1				
3.06	Chaff cutter	1				
3.07	Analytical Balance	1				
3.08	Wax dissecting trays	30				
3.09	Centrifuge Machine	1				
04. Laboratory - Biology Lab/ Department of Science and Technology						
4.01	Heating Mantle					
05. Laboratory - Research Lab/ Department of Science and Technology						
5.01	Binocular Bright field light microscopes	5				
5.02	Thermal Cycler	1				
5.03	Rotary evaporator	1				
06. Laboratory: Micro Electronics/ Department of Science and Technology						
6.01	Digital Multimeter	10				

07.Engineering Workshop/ Department of Science and Technology						
7.01	Digital Vernier caliper	6				
7.02	Welding machine	2				
08. Laboratory : Physics Lab/ Department of Science and Technology						
8.01	Digital Multimeter	8				
8.02	Calori meter	4				
8.03	Density KIT	2				
09. Laboratory - Chemistry / Department of Science and Technology						
9.01	Drying Oven	1				
9.02	Heating Mantle - 250ml	1				
9.03	Heating Mantle - 500ml	1				
9.04	Heating Magnetic Stirrer	1				
9.05	Distilled Water Plant	1				
9.06	Analytical Balance	2				
9.07	Top Loading balance	2				
10. Laboratory - Material Lab/ Department of Science and Technology						
10.01	Heating Magnetic Stirrer	1				

10.02	Analytical Balance	1				
10.03	Top Loading balance	2				
10.04	Fume Hood	1				
10.05	pH & Conductivity Meter	2				
11. Department of Applied Earth						
11.01	Hydro cyclone	1				
11.02	Laboratory-scale Jig	1				
11.03	Laboratory-scale Froth Flotation Unit	1				
11.04	Magnetic Separator	1				
11.05	Gemological Microscope	5				
11.06	Refractometer	10				
11.07	Calcite Dichroscope	4				
11.08	Diffraction grating spectroscope	4				
11.09	Electronic Scale	2				
11.10	Light source	1				
11.11	Mechanical Shaker	1				

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

1. 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.]

No	Specification	Bidder Response	If 'No' Comment/s
		(Yes /No)	On the offer
01. Department of Export Agriculture			
1.01 Dual Beam UV-Spectrophotometer			
	<p>Wavelength range:190 to 1,100 nm, Spectral bandwidth:1 nm (190 to 1,100 nm), Wavelength setting:0.1 nm increments (1 nm increments when setting scanning range), Wavelength accuracy:± 0.1 nm at D2 peak 656.1 nm, ± 0.3 nm for entire range, Wavelength repeatability:± 0.1 nm, Wavelength slew rate:Approx. 29,000 nm/min, Wavelength scanning speed:3,000 to 2 nm/min, 29,000 nm/min when survey scanning, Lamp interchange wavelength:Automatic interchange linked to wavelength. The interchange wavelength can be set freely in the range of 295 to 364 nm (0.1 nm increments)., Stray light:[Less than 0.02% at 220 nm (NaI), Less than 0.02% at 340 nm (NaNO₂), Less than 0.5% at 198 nm (KCl)], Photometric system:Double beam optics, Photometric range:Absorbance: -4 to 4 Abs, Transmittance: 0% to 400%, Photometric accuracy:[± 0.002 Abs at 0.5 Abs, ± 0.004 Abs at 1.0 Abs, ± 0.006 Abs at 2.0 Abs (measured using NIST930D/NIST1930 or equivalent.)], Photometric repeatability:[Less than ± 0.0002 Abs at 0.5 Abs, Less than ± 0.0002 Abs at 1 Abs, Less than ± 0.001 Abs at 2 Abs, Baseline stability:Less than 0.0003 Abs/Hr (700 nm, one hour after light source turned ON), Baseline flatness:Less than ± 0.0006 Abs (1,100 to 190 nm, one hour after light source turned ON), Noise level:Less than 0.00005 Abs (700 nm), Built-in light source auto position adjustment, Monochromator: Czerny-Turner type , Detector:Silicon photodiode, Distance between light beams: 100 mm, Should have separate Lamp for UV range and separate lamp for Visible range to avoid periodic reading errors [saving lamp life time, power saving and to decrease the cost for single sample analysing] Power requirements: AC230/240 V, 50/60 Hz, 140 VA, Environmental requirements:Temperature: 15°C to 35°C, Humidity: 30% to 80% (without condensation; 70% max. at 30°C or higher), Output device:[USB memory (optional) Extended memory (optional),Data files saved in text format or UVPIC format, Should have LCD/LED screen with the equipment[In built Screen] External control possible via USB. Display:[24-bit color touch screen, Touch pen (standard included),Touch panel protective sheet (optional)], Two spare Lamps should be provided Measurement modes:Spectrum mode[1]. Measurement modes: ABS, T%, E [2]. Number of repeat scans: 1 to 99 [3]. Recording system: Selection between single spectrum and data</p>		

<p>overlay [4]. Data storage and recall [5]. Data processing: Peak/valley detection, arithmetic operations, differentiation, smoothing, area calculation, point picking, data reading at cursor-specified point</p> <p>Photometric mode: Single-wavelength measurement [1]. Photometric modes: T% or Abs [2]. Quantitation using K-factor method [3]. Data table storage and recall functions Multiple-wavelength measurement [4]. Photometric modes: T% or ABS [5]. Measurements at up to eight designated wavelengths (set in 0.1 nm increments) 6. Data calculation at up to four wavelengths (difference or ratio between two wavelengths, calculation between three wavelengths, etc.) is possible. Quantitation mode: 1-wavelength, 2-wavelength, 3-wavelength, and 1st to 4th derivative methods [2]. 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) 3. 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: [1]. Measures absorbance changes as a function of time and calculates the enzymatic activity values. [2]. Measurement time: 1 to 9,999 sec/min [3]. Measurement methods: 1-wavelength, 2-wavelength, multi-cell, and rate measurements Time scan mode: [1]. Measures changes in measured values as a function of time. [2]. Measurement mode: ABS, T%, E [3]. Measurement time: 1 to 9,999 sec/min [4]. Data processing functions (same as spectrum mode) Biomethod mode: DNA/Protein Quantitation 1. Calculation of DNA/protein concentration and absorbance ratio, DNA concentration = $K1 \times A1 - K2 \times A2$, Protein concentration = $K3 \times A2 - K4 \times A1$ [2.] Factors and measurement wavelengths can be set freely. [3]. Background correction is possible. Quantitation of proteins 1. Quantitation methods: Lowry method, BCA method, Biuret method, CBB method (Bradford method), UV method Maintenance: [1]. Baseline correction, [2]. Lamp usage time display and reset. Instrument validation functions: [1] Compatible with 9 JIS items, Wavelength accuracy, wavelength repeatability, resolution, stray light, photometric accuracy, photometric repeatability, baseline flatness, baseline stability, noise level. 2) Semi-automatic validation, Validation inspections conducted interactively while inserting and removing inspection jigs. 3) Fully automatic validation Automatic validation inspections from measurement to evaluation and printout. Shared functions: 1. Automatic setting of measurement mode after instrument initialization. [] Selection of displayed number of decimal places Absorbance: 3 or 4 decimal places, Transmittance: 1 or 2 decimal places 3. Number of files that can be saved (built-in memory) Measurement parameters: 100 files max. Tabular data: 15 files max. Curve data: 16 files max. Validation condition: 10 files max.</p>		
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	<p>Validation result: 3 files max. 4. Number of savable files (Extended memory and options) Curve data files: 999 files max .5. Keyboard and Barcode reader Support.</p> <p>File names can be entered using the keyboard or bar code reader.</p> <p>6. Wake-up function, Brand name, Product Catalg, Catalog page and Model no should be available. Requested specification should be stated in the Catalog page and product web site. Country of Origin and Manufactured should be American, European, Australian or Japanese brands only. Letter of Manufacture Authorization, Should have Two years Manufacture warranty.</p> <p>If you fail to fullfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.</p>		
1.02 Smart Panel			
	<p>Screen Diagonal-75", Backlight-DLED, Resolution-3840 x 2160, Aspect Ratio - 16 : 9, Brightness (typical) w/o glass-450nits, Brightness (typical) w glass-350nits, Processor -Octa-core , Operating System-Android 11 OS, RAM / ROM- 8 GB Ram / 64GB ROM, [Special Features -Air Quality Sensor, Air Lonizer, Classroom Care, IP5X Dust protection, Germ Resistant, TUV Certified], Contrast Ratio- 1200:1, Dynamic Contrast Ratio- 30,000:1, Viewing Angle-178 degree (H) / 178 degree (V), Color gamut (x% NTSC)- 0.72, Frame Rate-60Hz, Response Time-8ms, [Wireless Sharing -Sharing without software installatoin, 02 buttons for share only content, Split screens], Panel bit-10-bit, Light life-50,000hrs, Orientation-Landscape, Touch tech-Fine IR+, Number of touches-Up to 40 Point Multi-touch, Touch interface-Type B USB x 3, Resolution-32767 x 32767, Thickness-Tempered, 3.2 mm, Hardness-9H, Built-in speaker-Built-in speakers 16W x 2 & subwoofer 16W x 1 (Dolby DD+), Power (AC) Inlet: x 1, D-Sub:x 1, HDMI (in out):3 X 2.0 1 X 2.0, DP:x 1 (1.2a x 1), USB Type A: x 7 (USB 3.0 x 5 + USB 2.0 x 2), USB Type C:x 2 (USB 3.0 x 2), Mic in (3.5mm):x 1, Audio Line Out (3.5mm):x 1, RS232:x 1, SPDIF:x 1, Array Microphone:x 8, OPS Slot:Yes, IR receiver:x 1, Power supply:AC100 to 240V, 50 to 60 Hz, Power consumption (Max / Typical / Standby):420W (max.) / 118.1W (Typical) / <0.5W (Standby), Warranty:03 Years,</p> <p>Should Have Minimum 06 Years Experience in selling the quoted Brand In Sri Lanka, Standard:Remote Control, Power Cord (by region), Touch pen, Quick Start Guide, Regulation Sheet, Touch Cable (USB to USB,) HDMI cable,VGA(D-sub 15pin) Cable,Type C Cable,Wall mount, Optional: OPS- i5000 - i5, 11th Generation (Windows 10 Professional), Wi-Fi Dongle - TDY31 (Wi-Fi standard- 802.11 a/b/g/n/ac), Wi-Fi Dongle with Bluetooth - WD02AT, Brand name, Product Catalg,</p> <p>Catalog page and Model no should be available. Requested specification should be stated in the Catalog page and product web site.</p> <p>If you fail to fullfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.</p>		

1.03 Analytical Balance		
	<p>Weighing Capacity:220g, four decimal, Minimum Display:0.1mg, Pan Size:Approx. 91 mm dia, Dimensions:Approx. W213 × D356 × H338 mm, Weight:Approx. 6.2 kg, Required Power Supply:AC adapter (input 100-240 V AC, 50/60 Hz, output 12 V, 1 A), Calibration Weight: Built-in, Could be connected with a computer via USB or RS232C, equipped with a 5-stage indicator, Should have switch between a response focus (R) and a stability focus (S) during measurements, Protective cover, Brand name, Product Catalg, Catalog page and Model no should be available. Requested specification should be stated in the Catalog page and product web site. Country of Origin and Manufactured should be American, European, Australian or Japanese brands only. Letter of Manufacture Authorization, one year Manufacture warranty. If you fail to fullfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.</p>	
1.04 Portable Freezer with Rechargeable Battery		
	<p>Dual zone, chest type, thermoelectric and compressor-powered refrigerators. Features: - R134a or suitable refrigerant , Should be provided with three-stage of battery protection system - Provided with digital display, LED light inside of the device and metal basket - cover chain to support the lid when it is open, Temperature Range +20°C to -20°C, Voltage DC 12/24V, Capacity 40L, Package Size 755*425*470 mm, Product Size 742*360*405 mm, Net Weight 15.3kg, Gross Weight 17.5kg, Power 48W, Spare rechargeable 12V battery [with four hours battery backup time]should be provided, Brand name, Product Catalg, Catalog page and Model no should be available. Requested specification should be stated in the Catalog page and product web site. Country of Origin and Manufactured should be American, European, Australian or Japanese brands only. Letter of Manufacture Authorization, one year Manufacture warranty. If you fail to fullfill the requested specification by the university [equipment supply with wrong specification] the equipment would be rejected after goods delivery to the university.</p>	
1.05 Laboratory Microwave Oven		
	<p>Laboratory type, Capacity -Approximately 40L or better, Microwave-1100W, Combination-Microwave and convention - 1900W, Convection - 1450W, Electric Power, 230V/ 50 Hz, Inverter Technology. Brand name, Product Catalg, 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 fullfill the requested specification by the university [equipment supply with wrong specification]the equipment would be rejected after goods delivery to the university.</p>	
1.06 Top Loading Balance		
	<p>Capacity:220g, Minimum display:0.001g, Response Time:Approx. 1 sec.Brand name, Product Catalg, 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 fullfill the requested specification by the university [equipment supply with wrong specification]the equipment would be rejected after goods delivery to the university.</p>	

02. Food laboratory		
2.01 Digital hand-held Turbidity meter		
Range: 0.01 to 1,000 NTU, Measurement: NTU		
Resolution:		
0-19.99NTU: 0.01		
20.0-99.9NTU: 0.1		
100-1100 NTU: 1		
Measurement Method: Ratio turbidimetric determination		
Accuracy: $\pm 2\%$ of reading plus stray light of reading plus stray light		
Repeatability: $\pm 1\%$ of reading or 0.01 FNU whichever is greater		
Response Time: less than 8 s in normal reading mode		
Source Lamp: Light-emitting diode (LED)		
Data Logging: 500 records		
Power supply: Battery operated (with optional Power or USB+Power module)		
With Calibration Kit (0.02, 20, 100, 1000 NTU)		
Supplied with; Sample Vials, Hard carrying case		
Warranty: Minimum one year		
2.02 Bench top pH meter (Food Samples detectors)		
Range: pH: 0-14		
Resolution: pH: 0.01		
Accuracy: pH: ± 0.02		
Display: Digital		
Automatic temperature compensation		
Supplied with: pH Electrode, pH standards (4, 7, 10 pH)		
Power supply: 240 V, 50/60 Hz		
Warranty: minimum one year		
2.03 Laboratory vacuum pump		
Capacity 2.5 m ³ /h		
Final vacuum (absolute) : 2 mbar		
With Vacuum gauge, Exhaust filter, Gas ballast valve, Anti-suck-back isolation valve (or solenoid),		
Power supply: 240 V, 50/60 Hz		
Warranty: Minimum one year		
2.04 Top loading balance		
Maximum Capacity: 500 g Readability:0.01g		
Repeatability (sd) : ≤ 0.01 g		
Linearity : ± 0.02 g		
Stabilization time : ≤ 3 sec.		
Casing: Chemical resistant		

	Power supply: 240 V, 50/60 Hz		
	Warranty: Minimum one year		
2.05 Fume hood			
	Internal Work Area Dimensions (W x D x H): 1250 x 550 x 1250 mm		
	With microprocessor control		
	Construction internal : Chemical resistant Phenolic resin laminates Epoxy resin tabletop Polycarbonate sash Counterbalanced weight pulley sash assembly		
	Supply With: Exhaust Blower: 02 nos. (1.5 kW, 2800 rpm) Base cabinet Ducting (For two stories)		
	Power supply: 240 V, 50/60 Hz		
	Warranty - Two years		
03. APFT and AQT Labs			
3.01 Micropipettes 100-1000 microliters			
	Fully autoclavable at 121 Celcius, Digital volume setting, UV resistant, stainless stel or ceramic plunger for chemical resistant, with longer second push stroke facility, 0.5% equal or less than precision, accuracy over 99%, should supply with minimum of 250 compatible tips, provide annual calibratione service, minimum of 03 year waranty		
3.02 Biochemistry Analyzer			
	Quantitatively analyze (Fully Automatic) the biochemistry parameters of blood serum, plasma, urine. 30 samples/test (sample positions), 7 inch LCD displaying all the reading results of sample and real time monitoring, Allow to update software, Available to connect USB & external printer, Analysis 20-30 parameters, 2 years warranty		
3.03 Veterinary ultrasound scanner			
	For cows, goats and sheep, multi frequency,rectal and convex probe, 5.5" multicolour display, AV port, Built in memory to store images, scan depth: 70-240mm, image process: histogram, colour encode, GAMA and image smoothen, Measurement:distance, circumference, area, volume, heart rate, GA, EDD, adjustable focus position, portable, belt for shoulder		
3.04 Visual AI gun			
	Adjustable visual screen,recording for photo and video, built in air channel, medical stainless steel probe rod (300mm length), portable vas deferens, antifall rope design		
3.05 Chaff cutter			
	Productivity (kg /hr) – 500-600, Number of Cutter Blades – 3-4, Particle Size (mm) – 10-30, Electrically operated, Voltage 220v-230v, single phase, warranty- 6 months above, availability of spare parts and after-sales services, Motor- 2-3 KW		

3.06 Analytical Balance		
	<p>Equipped with Two Interfaces: USB and RS232C, Weighing capacity (Max weight)- 320g, Minimum display (min weight)- 0.1mg , pan size- Approx. 91 min dia. Dimensions- Approx. W213 × D356 × H338 mm , Weight- Approx. 6.2 kg , Required Power Supply- AC adapter (input 100-240 V AC, 50/60 Hz, output 12 V, 1 A), I/O Terminals- RS232C (D-sub 9P plug), USB device (Type B), Calibration Weight- Built-in, Brand name, Product Catalog, Catalog page and Model no should be available. Requested specification should be stated in the Catalog page.</p> <p>The product should be American, European, Australian or Japanese brands only.</p> <p>Letter of Manufacture Authorization, One year warranty. If you fail to fulfill the requested specification by the university [equipment supplied with wrong specification] the equipment would be rejected after goods delivery to the university.</p>	
3.07 Wax dissecting trays		
	Length - 1', Width - 8", wax for one tray- 2 Kg	
3.08 Centrifuge Machine		
	Microcentrifuge spindown, Benchtop Capacity 12 x 2 mL, Meet international safety standards for centrifuges (IEC 1010-2-020), Color Graphic Display, 12-place rotor with cover, Lid interlocking system, Maximum speed/force with supplied rotor: 13,400rpm/12,100xG, Includes rotor with cover, 30-minute timer, settable in 15-sec. increments, Short-spin mode fixed at maximum speed	
04. Department of Science and Technology		
4.01 Heating Mantle		
	Type of Temperature display: Digital or Analog	
	Thermal Insulation: Ceramic Fiber	
	Temperature : 30°C – 400°C	
	Case Construction: Aluminum body powder coated	
	Electrical Requirements: 220V, 50/60 Hz	
05. Laboratory - Research Lab		
5.01 Binocular Bright field light microscopes		
	50,000 hours LED light source life time (instead of 1,500 from a halogen lamp) 30° inclined head rotates 360° Wide-field eyepieces - 10x/18mm Adjustable interpupillary distance Dioptic compensation Revolving nose piece, quadruple, reversed DIN achromatic objectives 4x, 10x, 40x, 100x (60x objective available as an alternative or an addition) Double layer mechanical stage, 125 x 115mm with X-Y 70 x 30mm moving range Coaxial coarse and fine focusing LED illuminator with adjustable intensity N.A. 1.25 Abbe condenser with adjustable height and iris diaphragm Power 240V (Compatible for microscopic camera Reticle – 20 mm cross line)	

5.02 Thermal Cycler			
	Capacity: 24 x 0.2 mL tubes (TC020-24); 18x0.5 mL tubes (TC050-18) Programmable temp. Range: 4°C to 99°C: Temp. Accuracy/uniformity: ±0.3°C/±0.5°C at 55°C; Max. Heating/cooling rate: 5°C/4°C per second Heating/cooling method: Peltier; Heated lid temperature: 105°C Program memory: 100 programs; Max. Cycles/segments: 99 cycles/9 segments; Max. hold time/step: 99 minutes 59 seconds		
5.03 Rotary evaporator			
	<ul style="list-style-type: none"> • Rotation Speed- should within the range- 20-260rpm • Rotation Speed Display- LCD • Titled Ange- 10-60° • Motor Power- at least 40W • Stroke Displacement- at least 160mm • Lifting- Motor • Temp. Range- Ambient – should be 180° • Bath Material- SSL with PTFE Coating • Temp. Controller Display- LCD • Temp. Controller Mode- P.I.D. • Temp. Control Accuracy- ±1°C(Water) and ±2°C (Oil) • Heating Power- 1300W • Bath Capacity- 5L or higher • Bath Diameter- 250mm or higher • Evaporation Volume- 50-3000mL (should be within the range) • Condenser Type- Vertical • Cooling Surface cm²- 1200 or higher • Protection class- IP20 • Ambient Temperature- 0°C to 4°C • Dimensions- (L×W×H) Inch (at least) - 15×14×28 • Voltage- 230V, 50/60Hz • High-temperature-tolerant and high-quality glass. 		
06. Laboratory : Micro Electronics			
6.01 Digital Multimeter			
	DC voltage(V) 1700V ±(0.2% +5) AC voltage(V) 1500V ±(0.8% +3) Resistance(Ω) 60MΩ ±(0.8% +2) Capacitance (F) 60mF ±(1.9%+5) True RMS Auto range Diode test Continuity Low battery indication Auto power off Power 9V battery		
07. Engineering Workshop			
7.01 Digital Vernier caliper			
	Accuracy:0.01mm0.01mm Model Number: none Measuring Range:0-150mm0-150mm Measurement Range:0-150mm0-150mm Material: Plastic		
7.02 Welding machine			
	400A MMA IGBT Inverter Welder		

08. Laboratory : Physics Lab			
8.01 Digital Multimeter			
	DC voltage(V)	1700V	$\pm(0.2\% + 5)$
	AC voltage(V)	1500V	$\pm(0.8\% + 3)$
	Resistance(Ω)	60M Ω	$\pm(0.8\% + 2)$
	Capacitance (F)	60mF	$\pm(1.9\% + 5)$ True RMS
	Auto range		
	Diode test		
	Continuity		
	Low battery indication		
	Auto power off		
	Power	9V battery	
8.02 Calori meter			
	Inside Copper. Outside Aluminum.		
	Dimensions: 75x50 & 100x75 diameter approximately		
8.03 Density KIT			
	SOLIDS and LIQUIDS for balances with resolution 0,001 gr/0,01 gr.		
	<ul style="list-style-type: none"> • Basket for floating and not floating samples • Suspension arm for basket or plummet • Support for plummet/basket • Support base for beaker 		
09. Chemistry Lab			
9.01 Drying Oven			
	<ul style="list-style-type: none"> • Temperature Range: 30°C – 250°C • Exterior should be stainless steel and epoxy coated finish • Interior should be stainless steel • Exterior and interior should be chemical resistant • Adjustable shelves should be available and four shelves should be available. • Over temperature protection should be available • Safety devices Built-in thermostat and ELCB. Fitted with temperature alarm to avoid overheating. • Sliding, toughened glass doors should be available. Door type Glass door with magnetic gasket for easy viewing of drying stocks. 		
	<ul style="list-style-type: none"> • Volume: 100L 		
	<ul style="list-style-type: none"> • Digital Temperature Control 		
	<ul style="list-style-type: none"> • Include an internal fan system 		
	<ul style="list-style-type: none"> • Electrical Requirements: 220V, 50/60 Hz 		
9.02 & 9.03 Heating Mantle: Type I & II			
	<ul style="list-style-type: none"> • Type of Temperature display: Digital or Analog 		
	<ul style="list-style-type: none"> • Thermal Insulation: Ceramic Fiber 		
	<ul style="list-style-type: none"> • Temperature : 30°C – 400°C 		
	<ul style="list-style-type: none"> • Case Construction: Aluminum body powder coated 		
	<ul style="list-style-type: none"> • Electrical Requirements: 220V, 50/60 Hz 		

9.04 Heating Magnetic Stirrer		
	<ul style="list-style-type: none"> • RPM Range: 50 - 1000rpm • Electrical Requirements: 220V, 50/60 Hz • Speed control range: 250-1250 RPM (should be within the range) • Max. stirring volume (water): 15 litres or better capacity • Plate temperature regulation range: +30°C to +330°C or better range • Temperature uniformity on the plate: $\pm 3^{\circ}\text{C}$ • Working plate heating time till 330°C: 15 min • Diameter of working plate: at least 160 mm • Working surface material: Aluminum alloy • The entire stirrer should be made out of a material with chemical and corrosive resistant 	
9.05 Distilled Water Plant		
	Capacity : 6.0 – 7.0 L/ hour	
	Heater : 6.0 – 10.0 KW	
	Material : Inner- Stainless Steel Outer- Stainless Steel & Power Coating	
	Controller : Hydraulic Thermostat	
	Electrical Requirements: 220V, 50/60 Hz	
	Switch: Main Power with Pilot Lamp	
	Safety: Low Water & Over Heating Cut-out	
9.06 Analytical Balance		
	<ul style="list-style-type: none"> • Capacity – 60-120 g (should be within the range) • Readability- at least 0.1 mg • Reproducibility- ± 0.1 mg • Linearity- at least ± 0.07 mg • Response time- 2s or lesser • Tare range- full to capacity • Allowable Ambient Operating Temperature within the range - 10°C to 35°C • Pan size- 85 mm or higher • Display should be LCD Backlit • Calibration- Internal Automatic • Selectable Application Programs- Counting, Weighing in percent, Density determination, Peak hold, Unstable condition, Checkweighing, Mixing, Conversion, Statistics, Components • Sensitivity Drift (10° - 35°C)- ± 1.5 ppm / $^{\circ}\text{C}$ • Draft Shield Chamber Height (from pan to top of glass door)- 209 mm or higher • Interface- mini USB • Leveling- Manual with front level bubble with two front leveling feet 	

	<ul style="list-style-type: none"> • Balance should be featured with RS 232 output for directly connect to a printer • AC adapter should be provided with the balance • Electrical connection- 230 V/ 50 Hz • Housing Design- Aluminum Die-cast base with coated ABS top housing • Interior and the exterior of the balance should be chemical resistance • After sales services: should have a good after sales service. Please attach details of after sales service personal, their qualifications and address of the after sales division etc. • Letter of authority required from the manufacturer • Documentary evidence of requested specifications should be provided by making on manufacturer's literature • Should be a world reputed brand and should contain at least 10 years acceptable working records including in Sri Lanka • The proposed model should be recently introduced to the market 		
9.07 Top Loading balance			
	<ul style="list-style-type: none"> • Capacity shall not be less than 1000 g • Readability- 1 mg or better • Repeatability- at least 1 mg • Linearity- 2 mg • Stabilization time- 3s or lesser • External calibration fuction should be available • Pan size- Not less than 120 mm • Square draft shield with all glass panels including three sliding doors • Front mounted level indicator for easy viewing • The balance shall have RS-232 or better communication port • Weigh below hook shall be available for density measurement • The balance should have stability indicator • Auto tare facility • CE and ISO certificates should be available • After sales services: should have a good after sales service. Please attach details of after sales service personal, their qualifications and address of the after sales division etc. • Letter of authority required from the manufacturer • Documentary evidence of requested specifications should be provided by making on manufacturer's literature • Should be a world reputed brand and should contain at least 10 years acceptable working records including in Sri Lanka • The proposed model should be recently introduced to the market 		

10. Laboratory: Materials Lab			
10.01 Heating Magnetic Stirrer			
	<ul style="list-style-type: none"> • RPM Range: 50 - 1000rpm 		
	<ul style="list-style-type: none"> • Electrical Requirements: 220V, 50/60 Hz • Speed control range: 250-1250 RPM (should be within the range) • Max. stirring volume (water): 15 litres or better capacity • Plate temperature regulation range: +30°C to +330°C or better range • Temperature uniformity on the plate: $\pm 3^{\circ}\text{C}$ • Working plate heating time till 330°C: 15 min • Diameter of working plate: at least 160 mm • Working surface material: Aluminum alloy • The entire stirrer should be made out of a material with chemical and corrosive resistant 		
10.02 Analytical Balance			
	<ul style="list-style-type: none"> • Capacity – 60-120 g (should be within the range) • Readability- at least 0.1 mg • Reproducibility- ± 0.1 mg • Linearity- at least ± 0.07 mg • Response time- 2s or lesser • Tare range- full to capacity • Allowable Ambient Operating Temperature within the range - 10°C to 35°C • Pan size- 85 mm or higher • Display should be LCD Backlit • Calibration- Internal Automatic • Selectable Application Programs- Counting, Weighing in percent, Density determination, Peak hold, Unstable condition, Checkweighing, Mixing, Conversion, Statistics, Components • Sensitivity Drift ($10^{\circ} - 35^{\circ}\text{C}$)- ± 1.5 ppm / $^{\circ}\text{C}$ • Draft Shield Chamber Height (from pan to top of glass door)- 209 mm or higher • Interface- mini USB • Leveling- Manual with front level bubble with two front leveling feet • Balance should be featured with RS 232 output for directly connect to a printer • AC adapter should be provided with the balance • Electrical connection- 230 V/ 50 Hz 		

	<ul style="list-style-type: none"> • Housing Design- Aluminum Die-cast base with coated ABS top housing • Interior and the exterior of the balance should be chemical resistance • After sales services: should have a good after sales service. Please attach details of after sales service personal, their qualifications and address of the after sales division etc. • Letter of authority required from the manufacturer • Documentary evidence of requested specifications should be provided by making on manufacturer's literature • Should be a world reputed brand and should contain at least 10 years acceptable working records including in Sri Lanka • The proposed model should be recently introduced to the market 		
10.03 Top Loading balance			
	<ul style="list-style-type: none"> • Capacity shall not be less than 1000 g • Readability- 1 mg or better • Repeatability- at least 1 mg • Linearity- 2 mg • Stabilization time- 3s or lesser • External calibration function should be available • Pan size- Not less than 120 mm • Square draft shield with all glass panels including three sliding doors • Front mounted level indicator for easy viewing • The balance shall have RS-232 or better communication port • Weigh below hook shall be available for density measurement • The balance should have stability indicator • Auto tare facility • CE and ISO certificates should be available • After sales services: should have a good after sales service. Please attach details of after sales service personal, their qualifications and address of the after sales division etc. • Letter of authority required from the manufacturer • Documentary evidence of requested specifications should be provided by making on manufacturer's literature • Should be a world reputed brand and should contain at least 10 years acceptable working records including in Sri Lanka • The proposed model should be recently introduced to the market 		

10.04 Fume Hood			
	<p style="text-align: center;"><u>Superstructure</u></p> <ol style="list-style-type: none"> 1. Tri-wall construction for maximum robustness. 2. U-PVC internal chamber. And it should be chemical resistant 3. Chain and Sprocket Sash support system. 4. Energy-efficient hood lighting through a pre-wired, electronic ballast. Typical light intensity on work surface is 930 lux in zero ambient condition. 5. U-PVC exhaust collar ensures superior chemical resistance. 6. Standard service fixtures included: 1 remote-controlled water fixture, 1 remote-controlled gas fixture and 1 Polypropylene drip cup. 7. Four (4) single electrical outlets with splash-proof cover are provided. <p><u>Safety Features</u></p> <ul style="list-style-type: none"> • Shaping vanes increase airflow “sweep” at the critical area at the sidewall to improve containment, especially when laboratory personnel walk fast in front of the hood. • Sash stop feature limits movement beyond 457 mm (18") to maintain a safe working condition for the user. • When sash is raised above 457 mm (18"), creep down mechanism automatically and gently returns the sash down to a safe level. • Sash key lock feature allows laboratory managers to restrict access to the fume hood. • Hot zone baffle system rapidly draws contaminants out of the fume hood's work zone, thereby, facilitating quick thermal heat relief. • Aerodynamic airfoil design aids in the efficient flow of air towards the hood. It also helps reduce turbulence and eliminate back flow. • Ergonomic sash handle gently directs air into the hood without sacrificing visibility. <p><u>Required Standards</u></p> <ul style="list-style-type: none"> • ASHRAE Standard 110.1995 - Method of Testing Performance of Laboratory Fume Hoods • EN 14175 – 2003 - Method of testing performance • SEFA 1:2006 – Recommended Practice for Laboratory Fume Hoods 		

	<p><u>Specifications</u> Exhaust Volume/ Static Pressure Required: 0.3 m/s (60 fpm) Fluorescent Lamp Intensity: 930 lux (86.3 foot-candles) Construction : Main Body Electrogalvanized steel with Epoxy-polyester hybrid Isocide™ powder coating and it should be chemical resistant Internal Liner: u-PVC Worktop :u-PVC or Polypropylene Sash Specification: Sash Material Polycarbonate Sash Configuration Vertical or Combination Sloping 5° Maximum Sash Opening 740 mm (29.1") Power 220-240 VAC, 50-60 Hz, 1Ø External Dimensions (W x D x H) 1220 x 900 x 915 mm (48.0" x 35.4" x 36.0")</p>		
10.05 pH & Conductivity Meter			
	<ul style="list-style-type: none"> • pH meter kit should include all the accessories needed to start testing in the field • It should include field carry case, buffers, standards, storage solutions, calibration tubes and accessories for quick start up. • Meter should be water resistant to IP 67 standard • It should have a LCD display with backlight • It should have automatic temperature compensation facility and automatic buffer recognition facility with pH 2.01, 4.01, 7.00, 9.21 and 10.01 buffers • The meter should be operated with AA batteries • Power adapter should be also provided to operate the meter using AC electricity • It should have gel filled pH glass combination electrode • Meter should read parameters pH, mV and temperature • Electrode cable length should be at least 1 meter <ul style="list-style-type: none"> • Electrode stand, universal power adapter, literature CD, printed quick start guide, computer interface cable and meter test certificate should also be provided with the meter • After sales services: should have a good after sales service. Please attach details of after sales service personal, their qualifications and address of the after sales division etc. • Letter of authority required from the manufacturer • Documentary evidence of requested specifications should be provided by making on manufacturer's literature 		

	<ul style="list-style-type: none"> • Should be a world reputed brand and should contain at least 10 years acceptable working records including in Sri Lanka • pH • Range (pH) - 0-14 pH • Resolution (pH)- 0.01 or better • Accuracy (pH) ± 0.002pH or better • Temperature • Range (Temperature) - 0 to 100° C • Resolution (Temperature) 0.1°C or better • Accuracy (Temperature) ± 0.1°C or better • mV • Range (mV) ± 2000.0 mV • Resolution (mV) 0.1mV • Accuracy (mV) ± 0.2 mV • Iron electrode • Compliance- Meter should comply with CE standard • After sales services: should have a good after sales service. Please attach details of after sales service personal, their qualifications and address of the after sales division etc. • Letter of authority required from the manufacturer • Documentary evidence of requested specifications should be provided by making on manufacturer’s literature • Should be a world reputed brand and should contain at least 10 years acceptable working records including in Sri Lanka <p>The proposed model should be recently introduced to the market</p>		
11. Department of Applied Earth			
11.01 Hydro cyclone			
	<p>Laboratory Scale Hydro cyclone Test Rig:</p> <p>Stand-alone unit with its own sump, pump, piping, valves, motor, starter etc. Suitable for fitting and operating hydro cyclone for different sizes. The hydro cyclone is to be provided with a range of vortex finders, spigots and also body extensions to permit variation of performance.</p>		
11.02 Laboratory-scale Jig			
	<p>Lab Scale jig separator, Max Dimension(L*W*H):700x600x1400mm, Times of stroke: about 350/min, Power(W): max 0.6kw</p>		

11.03 Laboratory-scale Froth Flotation Unit			
	lab froth flotation, Volume: max 1L, Max Dimension(L*W*H): 600X300X650mm		
11.04 Magnetic Separator			
	Power(W): about 10KW, Diameter of ring: Max 600 mm, Max background field: 12000-13000 GS, Max ore-feeding size:-1-1.5 mm		
11.05 Gemological Microscope			
	10X to 80X magnification, able to observe samples under dark field illumination, light field illumination and top light illumination (not only transmitted light but also with reflected light source and special arrangement for dark field illumination)		
11.06 Refractometer			
	Standard gem testing refractometer with monochromatic filter, polarizing filter with Sodium Light Source (pure yellow light)		
11.07 Calcite Dichroscope			
	Portable Dichroscope with Stone Holder		
11.08 Diffraction grating spectroscope			
	Portable, With built-in wavelength scale with fiber optic light source		
11.09 Electronic Scale			
	Electronic weighing reading up to the third decimal place		
11.10 Light source			
	Full Spectrum light with two optic fiber splitters, intensity controller		
11.11 Mechanical Shaker			
	speed adjustable mechanical shaker with water bath		

Section VI. Conditions of Contract

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. <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> (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

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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 its 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 [insert date].

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

“Check List”

No	Required Specification	Bidder’s Offer			
		Conformity		Page No	Remark
		Yes	No		
1	Company Profile				
2	Business Registration				
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 must be filled above check List”

Duly authorized for signed on behalf of
 (Name of the Bidder)

Name :

Signature :

Designation :