

**DEMOCRATIC SOCIALIST REPUBLIC OF  
SRI LANKA**



**UVA WELLASSA UNIVERSITY  
AHEAD PROJECT**

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF  
LABORATORY EQUIPMENT FOR DOR PROJECT**

**UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01**

**BIDDING DOCUMENT**

<b>Bid Opening On</b>	3 <sup>rd</sup> September 2019 - 11.30 a.m.
<b>Bid Validity up to</b>	1 <sup>st</sup> January 2020

Uva Wellassa University  
Passara Road,  
Badulla,  
Sri Lanka.



AHEAD Operation  
Uva Wellassa University

Deputy Director Procurement  
Uva Wellassa University

# CONTENTS

<b>Content</b>	<b>Page Nos.</b>
<b>Invitation for Bids</b>	03
Section I: Instructions to Bidders (ITB)	04
Section VI: Conditions of Contract (CC)	04
Section VIII: Contract Forms	04
<b>Contract Agreement</b>	05 - 06
<b>Performance Security</b>	07
Section II: Bidding Data Sheet (BDS)	08 - 09
Section III: Evaluation and Qualification Criteria	10 - 11
Section IV: Bidding Forms	12
<b>Form of Bid</b>	13
<b>Price Schedule</b>	14 – 15
<b>Bid security form</b>	16
<b>Manufacturer Authorization</b>	17
Section V: Schedule of Requirements	18
<b>List of goods and delivery schedule</b>	18
<b>Technical specification</b>	18 – 28
Section VII: Contract Data	29

**INVITATION FOR BIDS  
UVA WELLASSA UNIVERSITY  
AHEAD PROJECT**



**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF LABORATORY EQUIPMENT  
FOR DOR PROJECT  
UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01**

The Chairman, Department Procurement Committee, on behalf of the AHEAD project Uva Wellassa University, invites sealed bids from eligible bidders for **Supply, Delivery, Installation & Commissioning of Laboratory Equipment for DOR Project**

1. Bidding will be conducted through the National Competitive Bidding (NCB) procedure.
2. Bidder should have at least three years' experience in the relevant field in Sri Lanka.
3. Interested eligible bidders may obtain further information from the Deputy Director Procurement (AHEAD/OTS), Uva Wellassa University, Passara Road, Badulla, (Tel. No: 055-2226622 Ext- 1124, Fax No: 055-2226633), and inspect the bidding documents at the AHEAD/OTS project office of the University between 9.00 am to 3.00 pm from **12<sup>th</sup> August 2019 to 2<sup>nd</sup> September 2019 and until 3.00 p.m.**
4. A complete set of bidding documents in English may be purchased by interested bidders on submission of a written application to the Deputy Director Procurement (AHEAD/OTS), 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 bidding documents from the University website [www.uwu.ac.lk/procurement](http://www.uwu.ac.lk/procurement). 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 7,000.00** as non-refundable fee or the payments could be made to any branch of Bank of Ceylon, to the Uva Wellassa University, Account No: 82592579, and the original of the cash receipt/deposit slip to be attached with the bidding documents. The documents may be purchased **until 3.00 p.m. on 02/09/2019**. The pre bid meeting has been scheduled to be held on **21/08/2019 at 11.30 a.m. at the Admin Board room of the University**.
5. Bids must be delivered to **Chairman, Department Procurement Committee, Uva Wellassa University, Passara Road, Badulla**, on or before **11.30 a.m. on 03/09/2019**. Please indicate the "SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR DOR PROJECT – UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01" on the top left hand corner of the envelope.
6. All bids must be accompanied by a Bid Security addressed to the **Vice Chancellor, Uva Wellassa University**, valid for 148 days from the date of the bid opening. The Value of the Bid Security shall be **LKR 411,000.00**.
7. 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.
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  
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](http://www.npa.gov.lk)

## **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](http://www.npa.gov.lk)

## **Section VIII. Contract Forms**

### **Table of Forms**

1. Contract Agreement .....	5-6
2. Performance Security.....	7

# 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:----- [Name and Address of Employer] -----

Date: -----

PERFORMANCE 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)]

## 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.]

<b>ITB Clause Reference</b>	<b>A. General</b>
<b>ITB 1.1</b>	The Purchaser is: <b>Uva Wellassa University, AHEAD Project</b>
<b>ITB 1.1</b>	The name and identification number of the Contract are: <b>Supply, Delivery, Installation &amp; Commissioning of Laboratory Equipment for DOR Project</b> <b>Contract No: UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01</b>
<b>ITB 1.2</b>	The bidder should have at least three years' experience in the relevant industry in Sri Lanka and should submit documents to prove experience in the industry.
<b>ITB 2.1</b>	The source of funding is: <b>GOSL</b>
<b>ITB 4.4</b>	Foreign bidders are allowed to participate in bidding: <b>Not allowed</b>
	<b>B. Contents of Bidding Documents</b>
<b>ITB 7.1</b>	For Clarification of bid purposes only, the Purchaser's address is: Attention: <b>Deputy Director Procurement (AHEAD/OTS)</b> Address: Uva Wellassa University, Passara Road, Badulla. Telephone: 055-2226622 Ext-1124 Electronic mail : ahead@uwu.ac.lk
	<b>C. Preparation of Bids</b>
<b>ITB 11.1 (e)</b>	The Bidder shall submit the following additional documents: <b>A complete company profile of the bidders including, but not limited to, the following:</b> <ul style="list-style-type: none"> <li>• <b>Business Registration Certificate</b></li> <li>• <b>VAT Registration Certificate</b></li> <li>• <b>List of clients who use the Products</b></li> <li>• <b>Past 3 years relevant experience in the relevant Industry in Sri Lanka</b></li> <li>• <b>Manufacturer's Authorization.</b></li> <li>• <b>Certificate of Registration under Public Contract Act.</b></li> </ul>
<b>ITB 15.1</b>	The bidder shall quote the local expenditure in <b>Sri Lankan Rupees (LKR)</b> .
<b>ITB 18.1 (b)</b>	After sales service is: <b>Required</b>
<b>ITB 19.1</b>	The bid shall be valid for: <b>120 days from 03/09/2019</b>
<b>ITB 20.1</b>	Bid shall include a Bid Security in any of following ways <ul style="list-style-type: none"> <li>(a) A Bank guarantee issued by a reputed bank operated in Sri Lanka.</li> <li>(b) Cash deposit at the Shroff Counter of the University</li> <li>(c) Cash deposit from any branch of Bank of Ceylon, to the Uva Wellassa University, Account No: 82592579, and the <b>cash receipt/deposit slip to be attached with the bidding documents.</b></li> </ul>



<b>ITB 20.2</b>	The amount of the Bid Security shall be: <b>LKR 411,000.00</b> Beneficiary: <b>Vice Chancellor, Uva Wellassa University.</b> The validity period of the bid security shall be 148 days from the closing date of the Bid
	<b>D. Submission and Opening of Bids</b>
<b>ITB 22.2 (c)</b>	The inner and outer envelopes shall bear the following identification marks: <b>SUPPLY, DELIVERY, INSTALLATION &amp; COMMISSIONING OF LABORATORY EQUIPMENT FOR DOR PROJECT</b> <b>Contract No: UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01</b>
<b>ITB 23.1</b>	For bid submission purposes, the Purchaser's address is:  Attention: <b>Deputy Director Procurement (AHEAD/OTS)</b>  Address: <b>Uva Wellassa University, Passara Road, Badulla.</b>  The deadline for the submission of bids is  Date: <b>03/09/2019</b> Time: <b>11.30 a.m.</b>
<b>ITB 26.1</b>	The bid opening shall take place at:  Address: Board Room, Uva Wellassa University, Passara Road, Badulla.  Date: <b>03/09/2019</b> Time: <b>11.30 a.m.</b>
	<b>E. Evaluation and Comparison of Bids</b>
<b>ITB 34.1</b>	Domestic preference shall not be a bid evaluation factor.
<b>ITB 35.3(d)</b>	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 is selected and the adjustment is 0.05% per day or part thereof  (b) Deviation in payment schedule: Not applicable  (c) The cost of major replacement components, mandatory spare parts, and service: Applicable
<b>ITB 35.4</b>	The following factors and methodology will be used for evaluation: Not applicable
<b>ITB 35.5</b>	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

##### (a) 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):

Not Applicable

#### 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

#### 3. 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.

#### Qualification Criteria:

- (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) Bids will be rejected as non- responsive if documentary evidence in proof of above has not been provided.
- (d) 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.
- (e) Bidders should possess the Certificate of Business Registration issued by a Governmental Authority/ Registrar of Companies/ Provincial Registrar of Business in the relevant category.
- (f) Bidders shall register the Contract under Public Contract Act and submit the certificate of registration (ITB 11.1(e)).
- (g) 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.
- (h) Having a service center in Badulla or Uva Province will be considered as an added qualification.

#### 4. Domestic Preference (ITB 34.1) – **Not applicable**

## Section IV. Bidding Forms

### Table of Forms

Bid Submission Form.....	13
Price Schedule:.....	14-15
Bid Security (Guarantee) .....	16
Manufacturer's Authorization .....	17

**FORM OF BID**  
**UVA WELLASSA UNIVERSITY**  
**UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01**

To: Chairman  
Procurement Committee  
Uva Wellassa University  
Passara road,  
Badulla

We, the undersigned, declare that:

Having examined the Instructions to Bidders and Conditions of Tender, Conditions of Contract, Schedule of Requirements, Schedule of Particulars and Bills of Quantities, I / We the undersigned, offer to **Supply, Delivery, Installation & Commissioning of Laboratory Equipment for DOR Project, Contract No: UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01** said Price Schedule amounting to Rupees .....  
.....and cents.....(Rs ..... ) only

I / We undertake to **Supply, Delivery, Installation & Commissioning of Laboratory Equipment for DOR Project within** the time stated in the tender documents, if our tender is accepted.

I / We agree to abide by this tender for period of 120 calendar days from the date fixed for receiving of Bids or any extended period and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding Contract between us.

I / We understand that, you are not bound to accept the lowest or any tender, you may receive.

This day of .....20..... in the capacity of..... duly  
authorized to sign Bids for and on behalf  
(indicate whether the Freehold Owner or Power of Attorney Holder) of  
..... (Blanks to be filled in BLOCK CAPITALS)

Signature.....

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

Address.....

.....

Date.....

**Price Schedule**  
**Supply, Delivery, Installation & Commissioning of Laboratory Equipment for DOR Project**  
**Contract No: UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01**

No	Items	QTY	Unit Price (excluding VAT)	Total Price (excluding VAT)	VAT 15%	Total Price including VAT
1	CHNS Elemental Analyzer	1				
2	Ground Penetrating Radar (GPR) / GROUND GPR DETECTOR	1				
3	Hand Auger Sampler	1				
4	Global Positioning System (GPS)	1				

Total Price with VAT (in Words): .....

.....

Maintenance charges (as a percentage) after the warranty period (If any): .....

Vat Registration No: .....

Signature.....

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

Address.....

.....

Date.....

## FORM OF BID SECURITY

-----  
-----  
[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 ----- [name of the Bidder] (hereinafter called "the Bidder") has submitted to you its bid dated ----- [date] (hereinafter 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] hereby 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)]

## 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

#### 1. List of Goods and Delivery Schedule

[The Purchaser shall fill in this table, with the exception of the column “Bidder’s offered Delivery date” to be filled by the Bidder]

No	Description of Goods	Qty	Final Destination as specified in BDS	Delivery Date 1		
				Earliest Delivery Date	Latest Delivery Date	Bidder’s offered Delivery date
1	As Listed in the Price Schedule		Department of Science & Technology, Uva Wellassa University	Within 4 Weeks of the Order	Within 10 Weeks of the Order	

\* Destination of delivery: - Department of Export Agriculture,  
Uva Wellassa University,  
Passara Road,  
Badulla.

#### 2. Technical Specifications

The bidder shall follow the following technical requirement and other requirement

##### General Conditions

##### For equipment, Bidders should provide following details:

Country of origin catalogues, Mother company registration letter, possible date of supply, Mother company warranty period, After sales and service facility, Service agreement cost and free service period, Approximate value for main spare parts, Installation & operational manual/s, installation and demonstration should provide free of charge if this product is purchased, Local agent should have necessary tools to carry out complete service and repair.

## Technical Specifications

### Supply, Delivery, Installation and Commissioning of Laboratory Equipment for DOR Project

**UWU/AHEAD/DOR/FAS/NCB/GOODS/LE/01**

Item	Specifications			Bidders' Response
1. CHNS Elemental Analyzer	<b>Instrument Design</b>			
	Combustion Approach	Static and Dynamic	A mixture of two combustion techniques to ensure complete sample combustion	
	Furnace Design	Vertical		
	Combustion Furnace Temp.	100 – 1100 °C		
	Reduction Furnace Temp.	100 – 1100 °C		
	Pyrolysis Furnace Temp.	100 – 1100 °C		
	Sample Temp.	≥1800 °C	High heat, oxygen environment (static & dynamic introductions before and after the sample drops), the presence of combustion reagents and the beneficial exothermic reaction of the tin capsule makes for the most advanced and flexible combustion processes available	

	Separation Technique	Frontal Chromatography	Selective retention of the gases to produce a steady-state, stepwise signal allows for a simpler, more reliable and accurate determination of the combustion gases	
	Detector	TCD (Thermal Conductivity Detector)		
	<b>Gas Requirements</b>			
	Carrier Gas	Helium		
	Combustion Gas	Oxygen	CHNS Mode	
	<b>Cost Saving Features</b>			
	Gas Saver	Included	Instrument should have the feature for gas saver to reduce	
	Flexible Carrier Gas	Helium		
	Optimized Combustion	Included	Allows for customizable combustion conditions to ensure complete combustion while minimizing oxygen use	
	Copper Reduction Agent Regeneration	Optional	Connection to hydrogen gas mixtures facilitates reduction of copper reducing agent for reuse	
	<b>Productivity Features</b>			
	Autosampler	50-60 position	Pneumatic auto drop	
	Automatic Weight Transfer	Included	Instrument should quote with microbalance	

	Automatic Shutdown and Wake-up	Included	For reducing furnace temperatures at user defined times and dates as well as reheating and calibration	
	Column Switching Accessory	Optional	For convenient switching between Oxygen and CHN/CHNS modes	
	<b>Software Features</b>			
	Advanced Calculations	Elemental Ratio, simplest Empirical Formula, % Polymer, Solvent of Crystallization, Dry Basis and Heating Value	A series of calculations providing information such as the CN ratio or the calculated amount of heat released upon combustion	
	Record of Analysis	Sample; optimize combustion conditions background (blank) and calibration (Kfactor) values		
	Statistical Analysis	Average, Standard Deviation,		
		Variance and Relative Standard Deviation		
	Diagnostic Recording	Included	Providing permanent record of instrument timing, leak testing and condition monitoring	
	<b>Performance</b>			
	Accuracy	≤0.3%	In Helium carrier gas and certified reference materials	
	Precision			
		≤0.2%	In Helium carrier gas and certified reference materials	

	<b>Analysis Times</b>			
	CHN	6 mins		
	CHNS	8 mins		
	Oxygen	4 mins		
	<b>Sample Size</b>			
	Range	0 to 500 mg	Sample type dependent	
	<b>Analytical Range</b>			
	C	0.001-3.6 mgs		
	H	0.001-1.0 mgs		
	N	0.001-6.0 mgs		
	S	0.001-2.0 mgs		
	O	0.001-2.0 mgs	Provide the price separately	
	<b>Site Requirements</b>			
	Weight	Less than 50 kg		
	<b>Power requirements</b>	200 – 240V (50/60 Hz),		
	UPS	Suitable smart UPS (20 kVA, 30 min back up or better) to run the system and any other recommended items or support system not explicitly mentioned above but are parts of the basic configuration. The batteries should be maintenance free		
	<b>Other Requirements</b>			
	Silver capsule	1000		
	Led capsule	1000		
	Fibber cuvettes	800		

	Oxygen gas 47 L cylinder	Should be supply one cylinder	High Purity (99.999%) Oxygen Gas Cylinder	
	Helium gas 47 L cylinder	Should be supply two cylinder	High Purity (99.9995%) Helium Gas Cylinder	
	High Purity Zero Compressed Air Cylinder			
	Dual Stage Regulators for He / Oxygen / Zero Air			
	Helium regulator imported with high pressure	Should be provided		
	Nitrogen gas cylinder and regulator	Should be provided		
	Air gas cylinder and regulator	Should be provided		
	Power	100-230 VAC		
	Warranty	12 months from the date of installation		
	Training	Training is required at in house manufacturer or regional operational area		
	<b>Finally, the instrument should contain following items;</b>			
	<b>Description / Model</b>	<b>Quantity</b>		
	CHN/S System	1		
	CHN Analysis Kit	1		
	Includes:			
	CHN Oxidation Tubes / Reagents			

	CHN Reduction Tubes / Reagents			
	OXYGEN ANALYSIS Kit	1		
	CHNS ANALYSIS KIT	1		
	Calibration / Column Conditioning Standards	1		
	Includes:			
	Acetanilide Calibration Standard (2g)			
	BENZOIC ACID (4g)			
	CYSTINE (4g)			
	SULFAMIC ACID (10g)			
	Ultra Micro Balance	1		
	Pyrolysis Gas Regulator	1		
	Branded Pc	1		
	i5 / 4 GB RAM / 500GB HDD			
	19" Monitor			
2. Ground Penetrating Radar (GPR) / GROUND GPR DETECTOR	Sensor Frequency	250MHZ Ultra Wide Band		
	Signal Enhancement	DynaQ (optimizes data quality with cart speed). spatial filtering.		
	Data Analysis	In field analysis		
	Touch Screen Display	Size: 21cm (8") diagonal		
	Power	Consumption: 1025V Battery: 12V, 9AH Lead Acid		
	Spatial interval	5 cm (2")		
	Depths range	Up to 8m (27') maximum		
	Display depths scale	1m-8m (3'-30')		

	Languages supported	English	
	Geo-referenced data	Display the position of your surveys in Google Earth™ and other geo-referencing programs.	
	Screen captures	Add markers via the touch screen display to highlight features of interest.	
	Depth Slices	View horizontal slices at different depths to display cables, pipes and other utilities in unprecedented clarity.	
	On-site Map View	View your identified features in plan map view using the optional external GPS.	
	Innovative tools for finding buried utilities		
	<p>Ground penetrating radar is an innovative tool for finding buried utilities. It provides locate professionals, surveyors and other users with the tool they need to trace and mark the position of all types of cable and pipe, including plastic and ceramic. Built in as standard is the ability to take Screenshots which are saved to internal memory for immediate emailing via Wi-Fi or later export to USB memory stick. GPS positioning is captured for integration into Google Earth.</p> <p>GPR takes utility locating to the next level, offering users easily interpreted Depth Slices as well as traditional Line Views. Use proprietary FrequenSee™ technology to highlight small/shallow, medium or large/deep buried utilities.</p>		
	Sensor Frequency	250MHZ Ultra Wide Band (Includes FrequenSee)	
	Signal Enhancement	DynaQ (optimizes data quality with cart speed).spatial filting.	
	Data Analysis	In field analysis (Post-processing analysis)	
	Touch Screen Display	Size:21cm (8") diagonal (Enhanced: Upgrated Dispaly Unit package)	
	Power	Consumption: 1025V (Battery life typically 4-6hrs)	
		Battery: 12V,9AH Lead Acid	
	Spatial interval	5 cm (2")	



	Depths range	Up to 8m (27') maximum (Ground conditions dependent)		
	Display depths scale	1m-8m (3'-30')		
	Languages supported	English		
	Dimensions(H×W×D)	About 100 × 70 × 115cm		
	Weight	About 25Kg		
	Standard warranty	1 year		
3. Hand auger sampler	Peat sampler set to a depth of 10 m			
	General Characteristics	The stainless steel peat sampler is in fact a kind of gouge auger. The peat sampler is pushed into the soil manually. The sample containing part is a half cylinder. The peat sampler distinguishes itself from the standard gouge auger as its cone is massive.		
		The sample containing section is sealed off by a plate (fin) that can pivot around the axle in the middle of the sampler and that is fitted with a cutting edge on one side. Having arrived at the correct sampling depth the complete sampler is given half a turn clockwise (180°). During the turning the fin remains in position which allows the half cylinder to be filled and closed again.		
		The half circular sample cylinder is kept closed by the other side of the fin during extraction.		
	<b>Technical specification</b>			
	Connection	screwthread		
	Maximum sample depth	10 m		
	Product material	stainless steel, iron, other material		
	Sample diameter	52 mm or above		
	Sample length	50 cm or above		

	Sample specification	Un-disturbed or semi-disturbed		
	Sample volume	530 ml or above		
	Sampler position	vertical		
	Package size	117 x 27 x 23 cm (not compulsory)		
	Weight	Less than 40 kg prefer		
4. Global Positioning System (GPS)	<b>DISPLAY</b>			
	Diagonal Size	4 in - widescreen		
	Display Resolution	272 x 480 pixels		
	Diagonal Size	(metric) 10.2 cm		
	Display Width	2 in		
	Display Height	3.5 in		
	Color	Support color		
	Widescreen			
	Features:	sunlight readable, transflective		
	<b>MISCELLANEOUS</b>			
	Color Category	black		
	Included GPS Accessories	AC power adapter, USB cable		
	Waterproof	Yes		
	<b>CONNECTIONS</b>			
	Interfaces	USB 2.0		
	GPS Connection	USB 2.0		
	<b>BATTERY</b>			
	Rechargeable Battery	rechargeable		
	Included Qty	1		
	Technology	lithium ion		
	Run Time	(Up To) 16 hour(s)		
	<b>POWER</b>			

	Technology	lithium ion		
	Included	Qty 1		
	<b>GPS SYSTEM</b>			
	Type GPS/GLONASS navigator			
	Connectivity	NMEA 0183, USB 2.0		
	Features	Connect compatible, Geocaching, Point of Interest (POI), area calculation, automatic routing, custom POIs, hunt/fish calendar, photo viewer, sun and moon information, unit-to-unit transfer		
	Compatible with GPS Software			
	<b>CE INPUT DEVICE</b>			
	Type	touch sensitive screen		
	<b>FEATURES</b>			
	Sensors	altimeter, barometric altimeter, digital compass		
	<b>INTERNAL STORAGE</b>			
	Type	flash		
	<b>DIGITAL CAMERA</b>			
	Features	Geo-tagging, autofocus		
	Sensor Resolution	8 megapixels		
	<b>FLASH MEMORY</b>			
	Installed Size	8 GB		

	<b>CARD READER</b>			
	Supported Flash Memory Cards microSD			
	<b>NAVIGATION</b>			
	Waypoints	4000		
	Tracks	200		
	Tracklog Points	10000		
	Routes	200		

## 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.

<b>CC 1.1(i)</b>	The Purchaser is: AHEAD Project, Uva Wellassa University
<b>CC 1.1 (m)</b>	The Project Site(s)/Final Destination(s) is/are: Department of Science & Technology, Uva Wellassa University, Passara Road, Badulla.
<b>CC 8.1</b>	For notices, the Purchaser's address shall be:  Deputy Director Procurement (AHEAD/OTS) Uva Wellassa University, Passara Road, Badulla.
<b>CC 11</b>	Goods shall be supplies in compliance with the quality and the specification given.
<b>CC 15.1</b>	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.
<b>CC 17.1</b>	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
<b>CC 26.1</b>	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.
<b>CC 26.1</b>	The maximum amount of liquidated damages shall be: 10 % from the contract sum.
<b>CC 27.3</b>	The warranty shall remain valid for a period of time specified with the specifications.
<b>CC 27.6</b>	The supplier shall remedy the defects within 3 Months from the date of information by the purchaser.

**“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	Tender Fee				
12	Financial Statement				
Status					

“Bidders must be filled above check List”