

**DEMOCRATIC SOCIALIST REPUBLIC OF
SRI LANKA**



**UVA WELLASSA UNIVERSITY
AHEAD PROJECT**

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF
LABORATORY EQUIPMENT FOR DEPARTMENT OF ENGINEERING
TECHNOLOGY,
FACULTY OF TECHNOLOGICAL STUDIES**

UWU/AHEAD/18/TS/ET/02

BIDDING DOCUMENT

| | |
|---------------------------|--|
| Bid Opening On | 21 st August 2018 – 3.00 p.m. |
| Bid Validity up to | 19 th December 2018 |

Uva Wellassa University
Passara Road,
Badulla,
Sri Lanka.

Deputy Director Procurement
Uva Wellassa University

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



**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF LABORATORY EQUIPMENT
FOR DEPARTMENT OF ENGINEERING TECHNOLOGY,
FACULTY OF TECHNOLOGICAL STUDIES
UWU/AHEAD/18/TS/ET/02**

The Chairman, Department Procurement Committee, on behalf of the AHEAD project Uva Wellassa University, invites sealed bids from eligible bidders and qualified bidders for **Supply, Delivery, Installation & Commissioning of Laboratory Equipment for Department of Engineering Technology, Faculty of Technological Studies**

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, Uva Wellassa University, Passara Road, Badulla, (Tel. No: 055-2226622 Ext- 1124, Fax No: 055-2226633), and inspect the bidding documents at the project office of the University between 9.00 am to 3.00 pm from **30/07/2018 to 20/08/2018**.
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, Uva Wellassa University, Passara Road, Badulla and upon payment of a non-refundable fee of Rupees 5,000.00 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. 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 Rs. 5,000.00 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 20/08/2018** The pre bidding meeting has been scheduled to be held on **08/08/2018 at 2.00 p.m. at Board room at the University**.
5. Bids must be delivered to be addressing **Chairman, Department Procurement Committee, Uva Wellassa University, Passara Road, Badulla**, on or before **3.00 p.m. on 21/08/2018**. Please indicate the "SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR DEPARTMENT OF ENGINEERING TECHNOLOGY, FACULTY OF TECHNOLOGICAL STUDIES - UWU/AHEAD/18/TS/ET/02" 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 120 days from the date of the bid opening. The Value of the Bid Security shall be **Rs. 251,600.00**
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

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 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:----- [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.]

| | |
|-----------------------------|---|
| ITB Clause Reference | A. General |
| ITB 1.1 | The Purchaser is: Uva Wellassa University, AHEAD Project |
| ITB 1.1 | The name and identification number of the Contract are: Supply, Delivery, Installation & Commissioning of Laboratory Equipment for Department of Engineering Technology, Faculty of Technological Studies Contract No: UWU/AHEAD/18/TS/ET/02 |
| ITB 1.2 | 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. |
| 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 Director Procurement Address: Uva Wellassa University, Passara Road, Badulla. Telephone: 055-2226622 Ext-1124 Electronic mail : ahead@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 • Past 3 years relevant experience in the relevant Industry in Sri Lanka • Manufacturer's Authorization. • Certificate of Registration under Public Contract Act. |
| 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: 120 days from 21/08/2018 |
| ITB 20.1 | Bid shall include a Bid Security in any of following ways <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 (c) Cash deposit from any branch of Bank of Ceylon, to the Uva Wellassa University, Account No: 82592579, and the cash receipt/deposit slip to be attached with the bidding documents. |

| | |
|---------------------|--|
| ITB 20.2 | The amount of the Bid Security shall be: Rs.251,600.00 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, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR DEPARTMENT OF ENGINEERING TECHNOLOGY, FACULTY OF TECHNOLOGICAL STUDIES Contract No: UWU/AHEAD/18/TS/ET/02 |
| ITB 23.1 | For bid submission purposes, the Purchaser's address is: Attention: Deputy Director Procurement Address: Uva Wellassa University, Passara Road, Badulla. The deadline for the submission of bids is Date: 21/08/2018 Time: 3.00 p.m |
| ITB 26.1 | The bid opening shall take place at: Address: Board Room, Uva Wellassa University, Passara Road, Badulla. Date: 21/08/2018 Time: 3.00 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 is selected and the adjustment is 0.5% per week or part thereof (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: Not applicable |
| 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

(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**

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FORM OF BID
UVA WELLASSA UNIVERSITY
UWU/AHEAD/18/TS/ET/02

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 Department of Engineering Technology, Faculty of Technological Studies Contract No: UWU/AHEAD/18/TS/ET/02** said Price Schedule amounting to Rupees

.....and cents.....(Rs)

only

I / We undertake to **Supply, Delivery, Installation & Commissioning of Laboratory Equipment for Department of Engineering Technology, Faculty of Technological Studies** 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 of20..... 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 Department of Engineering Technology, Faculty of Technological Studies
Contract No: UWU/AHEAD/18/TS/ET/02

| No | Items | QTY | Unit Price (excluding VAT) | Total Price (excluding VAT) | VAT 15% | Total Price including VAT |
|----|--|-----|----------------------------|-----------------------------|---------|---------------------------|
| 1 | Handheld Analog multi meter | 5 | | | | |
| 2 | Handheld Digital multi meter | 15 | | | | |
| 3 | Heavy Duty Ammeter | 3 | | | | |
| 4 | Heavy Duty Voltmeter | 3 | | | | |
| 5 | Single phase and three phase AC/DC Watt meter | 3 | | | | |
| 6 | Analog Oscilloscope | 6 | | | | |
| 7 | Digital Storage Oscilloscope | 6 | | | | |
| 8 | DC power supply | 6 | | | | |
| 9 | Function Generator | 3 | | | | |
| 10 | Power analyzer | 1 | | | | |
| 11 | Single phase and three phase transformer trainer | 1 | | | | |
| 12 | AC and DC Electrical machine trainer | 1 | | | | |
| 13 | Refrigeration cycle trainer kit | 1 | | | | |
| 14 | Air conditioning trainer kit | 1 | | | | |
| 15 | Laboratory scale steam power plant | 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 | | Uva Wellassa University | Within 4 Weeks of the Order | Within 10 Weeks of the Order | |

* Destination of delivery: - Department of Engineering Technology
Faculty of Technological Studies
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 & Commissioning of Laboratory Equipment for Department of Engineering Technology, Faculty of Technological Studies - UWU/AHEAD/18/TS/ET/02

| No | Item | Feature | Specifications | Bidders' Response |
|----------------------------------|--|-----------------------------|---|-------------------|
| 1 | Handheld Analog multi meter | Measuring Range | 100mV-600V DC, 7 steps | |
| | | | 10V-600V, 5 steps | |
| | | | 50 μ A – 1A DC, 5 steps | |
| | | | 3mA-3A AC, 4 steps | |
| | | | Ω x 1/10/100 resistance | |
| | | Internal Resistance | 20k Ω /V (DC) /6.67k Ω /V (AC) | |
| | | Scale Zero Point | left | |
| | | Other | Electrical supply voltage 1x 1.5V battery | |
| | | | Relevant test leads and other applicable accessories should be provided | |
| | | Operating Environment | Laboratory | |
| | | Operating Temperature Range | +150C to 400C | |
| | | User Guide | Manual in printed or electronic form should be provided | |
| | | Warranty Period | 5 years or more | |
| | | Manufacturer | Should be ISO9001 certified | |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue | |
| | The bidder shall have supplied similar laboratory equipment's during last five years | | | |
| | The bidder should have submitted past experience in supplying similar laboratory equipment's | | | |
| 2 | Handheld Digital multi meter | General | This instrument should be hand held and portable | |
| | | | This instrument should be industrial type | |
| | | | This instrument should show true RMS value | |
| | | | Should have Low impedance to detect stray voltage | |
| | | | Should have low pass filter for variable frequency drive measurements | |
| | | | Audible continuity | |
| | | | Diode test should available | |
| | | | Should give warning against improper test leads connection | |
| | | | Auto and manual ranging should available | |
| | | | Auto power off | |
| | | | Data hold and relative reading should be available | |
| | | Measurements | AC and DC voltage (0-1000V) | |
| | | | AC and DC current (0-10A) | |
| Resistance (up to 60M Ω) | | | | |

| | | | |
|----------------|--|---|---|
| | | | Diode test |
| | | | continuity |
| | | | Battery test |
| | | | capacitance |
| | | | Frequency |
| | | | Duty cycle |
| | | | One or more Temperature inputs |
| | | Safety Rated | CATIV for 600V , CATIII for 1000V |
| | | Operating Environment | Laboratory |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C |
| | | Required Net Dimension of the Apparatus | 100mmx50mmx25mm or closest |
| | | User Guide | Manual in printed or electronic form should be provided |
| | | Warranty Period | 5 years or more |
| Manufacturer | Should be ISO9001 certified | | |
| Other Comments | Above specification should have marked in the manufacturer's original catalogue | | |
| | The bidder shall have supplied similar laboratory equipment's during last five years | | |
| | The bidder should have submitted past experience in supplying similar laboratory equipment's | | |
| 3 | Heavy Duty Ammeter | General | Specially designed for student experiments |
| | | | Instrument should have three or more current ranges |
| | | | There should be a switch selectable by input jack to measure AC or DC values |
| | | Ranges (AC and DC) | 0 to 50mA/500mA/5A |
| | | Accuracy | +or- 2% |
| | | Voltage Drop | Max. voltage drop 0.25V or less |
| | | Frequency Response | 50Hz to 20kHz |
| | | Overload Protection | 15A |
| | | Other | This instruments should be designed for student experiments in the laboratory |
| | | | Relevant test leads and other applicable accessories should be provided |
| | | Operating Environment | Laboratory |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C |
| | | Required Net Dimension of the Apparatus | 150mmx120mmx50mm or closest |

| | | | | |
|--|----------------------|---|--|--|
| | | User Guide | Manual in printed or electronic form should be provided | |
| | | Warranty Period | 5 years or more | |
| | | Manufacturer | Should be ISO9001 certified | |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue | |
| | | | The bidder shall have supplied similar laboratory equipment's during last five years | |
| | | | The bidder should have submitted past experience in supplying similar laboratory equipment's | |
| 4 | Heavy Duty Voltmeter | General | Specially designed for student experiments | |
| | | | Instrument should have three or more voltage ranges | |
| | | | There should be a switch selectable by input jack to measure AC or DC values | |
| | | Ranges (AC and DC) | 0 - 3 V,15V,30 V | |
| | | Accuracy | +or- 2% of full scale | |
| | | Sensitivity | 10kΩ per V | |
| | | Frequency Response | 20Hz -50kHz | |
| | | Other | This instruments should be designed for student experiments in the laboratory | |
| | | | Relevant test leads and other applicable accessories should be provided | |
| | | Operating Environment | Laboratory | |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C | |
| | | Required Net Dimension of the Apparatus | 150mmx120mmx100mm or closest | |
| | | User Guide | Manual in printed or electronic form should be provided | |
| | | Warranty Period | 5 years or more | |
| | | Manufacturer | Should be ISO9001 certified | |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue | |
| The bidder shall have supplied similar laboratory equipment's during last five years | | | | |
| The bidder should have submitted past experience in supplying similar laboratory equipment's | | | | |
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| 5 | Single phase and three phase AC/DC Watt meter | Measuring Range | 50Hz frequency |
| | | | 60V to 480V AC/DC |
| | | | 5A current range |
| | | Input Resistance | 30k Ω -480k Ω |
| | | Zero Point | left |
| | | Frequency Response | 0Hz to 500Hz |
| | | Accuracy | +or- 1% for single phase AC |
| | | | +or- 2% for balanced three phase AC |
| | | | +or- 2.5% for DC |
| | | Protection | 6.3A HRC fuse |
| | | Other | This instruments should be designed for student experiments in the laboratory |
| | | | Relevant test leads and other applicable accessories should be provided |
| | | Operating Environment | Laboratory |
| | | Electrical Supply Compatibility | 230V/50Hz |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C |
| | | Required Net Dimension of the Apparatus | 150mmx120mmx100mm or closest |
| | | User Guide | Manual in printed or electronic form should be provided |
| Warranty Period | 5 years or more | | |
| Manufacturer | Should be ISO9001 certified | | |
| Other Comments | Above specification should have marked in the manufacturer's original catalogue | | |
| | The bidder shall have supplied similar laboratory equipment's during last five years | | |
| | The bidder should have submitted past experience in supplying similar laboratory equipment's | | |
| 6 | Analog Oscilloscope | Bandwidth | 30MHz or more |
| | | Number of Channels | Two channels should be available |
| | | Cursor Readout | Cursor read out should be available |
| | | Vertical Sensitivity | 1mV/div |
| | | Horizontal Axis | Sweep time should be 0.2 μ s -0.5s/div |
| | | | Sweep magnification 10 times |
| | | XY Mode | XY mode should be available |

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| | | Auto Time Base Settings | Auto time base settings should be available |
| | | Buzzer Alarm | Buzzer alarm should be available |
| | | Display | LCD readout display for vertical/horizontal/Frequency measurements |
| | | External Triggering Signal Input | Input impedance should be approximately 1M Ω ,25pF and maximum input voltage should be 300v DC and AC peak |
| | | Frequency Counter | Frequency counter should be available within the oscilloscope |
| | | Other | This should have high performance and should be reliable |
| | | Operating Environment | Laboratory |
| | | Electrical Supply Compatibility | 230V/50Hz |
| | | Operating Temperature Range | +15 $^{\circ}$ C to 40 $^{\circ}$ C |
| | | Required net Dimension of the Fluid Friction Apparatus | 360mmx180mmx120mm or closest |
| | | User Guide | Manual in printed or electronic form should be provided |
| | | Warranty Period | 5 years or more |
| | | Manufacturer | Should be ISO9001 certified |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue |
| | | | The bidder shall have supplied similar laboratory equipment's during last five years |
| | | | The bidder should have submitted past experience in supplying similar laboratory equipment's |
| 7 | Digital Storage Oscilloscope | Digital Storage Oscilloscope | Equipment should be dual channel (two input channels should be available) |
| | | | Equipment should have Frequency range of 30MHz or more |
| | | | Equipment should have Input impedance of 1M Ω ,15pF,maximum 400 VDC |
| | | | Vertical axis range should be 2mV -10V/Skt and rise time should be less than 14ns |
| | | | Horizontal axis should be 5ns to 100s/Div |

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| | | | Memory depth per channel 4k points or more |
| | | | Go/No Go function should be available |
| | | | Auto, norm and single trigger mode should be available |
| | | | Add,subtract,FFT math functions should be available |
| | | | USB,VGA and LAN ports should be available |
| | | | Equipment should have LCD display |
| | | | Equipment should designed to meet today's most demanding engineering requirements and budget |
| | | | Equipment should be user friendly, economic design and compact |
| | | Probe | Two probes should provide per each oscilloscope which are applicable with above digital oscilloscope |
| | | | Input resistance should be 1M Ω and 10M Ω (at 10M Ω Oscilloscope input) |
| | | | Bandwidth should be 100Mz |
| | | | Input voltage should be 600VDC including AC peak |
| | | | Connection should be BNC plug |
| | | | This should include channel identifier clip, sprung hook, ground lead, insulating tip, IC tip, adjusting tool, measuring tip, and sprung earth tip |
| | | Operating Environment | Laboratory |
| | | Electrical Supply Compatibility | 230V/50Hz |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C |

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| | | Required net Dimension of the Fluid Friction Apparatus | 360mmx180mmx120mm or closest |
| | | User Guide | Manual in printed or electronic form should be provided |
| | | Warranty Period | 5 years or more |
| | | Manufacturer | Should be ISO9001 certified |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue |
| | | | The bidder shall have supplied similar laboratory equipment's during last five years |
| | | | The bidder should have submitted past experience in supplying similar laboratory equipment's |
| 8 | DC power supply | Output | Isolated two channels should be available |
| | | | Voltage range should be 0-30V |
| | | | Current range should be 0-3A |
| | | | Max output less than 200W |
| | | | ON/OFF switch should be available |
| | | Regulation | Approximate 0.01% line regulation should be provide |
| | | Weight | Less than 5kg |
| | | Protection | Overload protection should be provide |
| | | Display | LED or LCD screen |
| | | | Digital panel control |
| | | Operation | Series or parallel operation available |
| | | Design | Design should be compact, user friendly, coarse and fine volume control |
| | | Other | Smart cooling fan should be available to achieve low noise |
| | | | USB standard interface for data transfer should be available |
| | | Operating Environment | Laboratory |
| Electrical Supply Compatibility | 230V/50Hz | | |
| Operating Temperature Range | +15 ⁰ C to 40 ⁰ C | | |

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| | | Required Net Dimension | 210mmx130mmx265mm or closest | |
| | | User Guide | Manual in printed or electronic form should be provided | |
| | | Warranty Period | 5 years or more | |
| | | Manufacturer | Should be ISO9001 certified | |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue | |
| | | | The bidder shall have supplied similar laboratory equipment's during last five years | |
| | | | The bidder should have submitted past experience in supplying similar laboratory equipment's | |
| 9 | Function Generator | Waveforms | This instrument should be generate sine, square, ramp, noise and arbitrary waveform | |
| | | Arbitrary Function | 20MSa/s sample rate | |
| | | | 10MHz repetition rate | |
| | | | 4k point waveform length | |
| | | | 10 bit amplitude resolution | |
| | | Frequency Characteristics | 0.1Hz-25MHz range for sine /square | |
| | | | 0.1Hz-1MHz range for ramp | |
| | | | 0.1Hz resolution | |
| | | Modulation | AM/FM/FSK modulation should available | |
| | | Square Waveform | 1% - 99% adjustable Duty cycle for Square waveform | |
| | | Display | LCD screen which displaying Amplitude ,DC offset and other key setting information simultaneously | |
| | | Other | Waveform parameter setting can be done through Numeric keypad entry and knob selection | |
| | | | USB device interface for remote control and waveform editing | |
| | | Operating Environment | Laboratory | |
| | | Electrical Supply Compatibility | 230V/50Hz | |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C | |
| Required net Dimension Apparatus | 300mmx120mmx120mm or closest | | | |
| User Guide | Manual in printed or electronic form should be provided | | | |
| Warranty Period | 5 years or more | | | |

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| | | Manufacturer | Should be ISO9001 certified |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue |
| | | | The bidder shall have supplied similar laboratory equipment's during last five years |
| | | | The bidder should have submitted past experience in supplying similar laboratory equipment's |
| 10 | Power analyzer | Measuring Parameters | Voltage ,current, active power, reactive power, apparent power, power factor, phase angle ,peak voltage, peak current, crest factor, harmonic measurements, THD calculation ,vector representation |
| | | Range | Voltage up to 1000V |
| | | | Current up to 40A |
| | | Inputs | Model should be support for Three input element |
| | | Other | USB/RS232 communication interface should be available |
| | | | Accessories such as voltage and current transformers, clamp on current probes and test leads should be provided |
| | | Operating Environment | Laboratory |
| | | Electrical Supply Compatibility | 230V/50Hz |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C |
| | | Required net Dimension of the Apparatus | 300mm x150mmx 150mm or closest |
| | | User Guide | Manual in printed or electronic form should be provided |
| | | Warranty Period | 5 years or more |
| | | Manufacturer | Should be ISO9001 certified |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue |
| The bidder shall have supplied similar laboratory equipment's during last five years | | | |
| The bidder should have submitted past experience in supplying similar laboratory equipment's | | | |
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| 11 | Single phase and three phase transformer trainer | General | This apparatus should be able to deal with practical regarding isolation transformers and auto transformers, design and connection of transformers, equivalent circuit diagrams, transformer ratios, no load and short circuit experiments and vector groups used in three phase transformers. |
| | | Power | This training system should be based on a transformer with a approximate power level of 100VA |
| | | RLC Load | This apparatus should provide relevant ohmic, inductive and resistive loads for experiments |
| | | Measuring Units | Relevant measuring instruments such as multi meter, wattmeter, power factor meter should be comes with the training unit |
| | | Accessories | Set of safety measurement cables, safety connecting plugs should be provided |
| | | Operating Environment | Laboratory |
| | | Electrical Supply Compatibility | 3x230V/400V/50Hz |
| | | Operating Temperature Range | +15 ⁰ C to 40 ⁰ C |
| | | Required net Dimension of the Apparatus | 1800mmx120mmx40mm or closest |
| | | User Guide | Manual in printed or electronic form should be provided |
| | | Warranty Period | 5 years or more |
| | | Manufacturer | Should be ISO9001 certified |
| | | Other Comments | Above specification should have marked in the manufacturer's original catalogue |
| The bidder shall have supplied similar laboratory equipment's during last five years | | | |
| The bidder should have submitted past experience in supplying similar laboratory equipment's | | | |
| 12 | AC and DC Electrical machine trainer | General | The apparatus should allow students to learn both industrial AC and DC electrical machines. |
| | | | The apparatus should be versatile but should be cost effective. |
| | | | The apparatus should be include conventional parts than virtual instruments |
| | | | The apparatus should have fully delivered torque/speed measurement system |

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| | | | The apparatus should allow fast and easy machine coupling | |
| | | | Nominal power should be less than 1kW for supplied each motor | |
| | | | The apparatus should maintain high electrical and mechanical safety | |
| | | Major Parts | | The apparatus should have DC motors and Generators including DC shunt motor, DC series motor, DC compound motor, DC separately excited motor, DC shunt Generator, , DC compound Generator, DC separately excited Generator |
| | | | | The apparatus should have a Single phase induction motor |
| | | | | The apparatus should have a Three phase induction motor |
| | | | | The apparatus should have a control panel with measuring instruments |
| | | | | The apparatus should provide relevant size of load resistors, load reactors and load capacitors for experiments. |
| | | Operating Environment | | Laboratory |
| | | Electrical Supply Compatibility | | 230V/50Hz |
| | | Operating Temperature Range | | +15 ⁰ C to 40 ⁰ C |
| | | Required Net Dimension for the Electrical Machine Trainer Panel | | 1600mm L x600 mm D X 1600mm H or closest |
| | | User Guide | | Manual in printed or electronic form should be provided and also laboratory experiment guidance for each practical session should be provided. |
| | | Warranty Period | | 5 years or more |
| | | Manufacturer | | Should be ISO9001 certified |
| | | Other Comments | | Above specification should have marked in the manufacturer's original catalogue |
| | | | | The bidder shall have supplied similar laboratory equipment's during last five years |
| | | | | The bidder should have submitted past experience in supplying similar laboratory equipment's |
| | | 13 | Refrigeration cycle trainer kit | |

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| | | refrigeration circuit | |
| | | Software allows students to visualize experimental parameters using Pressure – Enthaply charts | |
| | | Temperature sensors in heat source and heat sink water tanks allows clear demonstration of a refrigeration or heat pump cycle | |
| | | Water pump allows circulation of water for steady-state experiment | |
| | | Refrigerant circuit colour-coded to international standard | |
| | | Should be able to demonstrate and determine and investigate Basic refrigeration cycle energy balance | |
| | | Should be able to determine and investigate the COP of refrigeration cycle | |
| | | Should be able to determine and investigate non-isentropic, isentropic and volumetric efficiencies of the compression stage | |
| | | Should be able to compare performance between actual and reversed Carnot cycles. | |
| | Operating Environment | Laboratory | |
| | Dimensions of the refrigeration cycle trainer kit | 700 mm wide x 400 mm front to back x 700 mm high or closest | |
| | Operating temperature range | 0°C to +30°C or similar | |
| | LCD display | Yes. For all measured parameters | |
| | Electrical Supply compatibility | 230 V / 50 Hz (Phase voltage) | |
| | Data acquisition | Yes. For all measured and important parameters | |
| | Connectivity | Connectivity included featuring data acquisition via USB | |
| | Software | Yes. For data acquisition and processing. Should be compatible with windows 7 or newer versions | |
| | Warranty | 5 years or more | |
| | Manufacturer | Should be ISO9001 certified | |
| | Other comments | Above related specification should have marked in the manufacturer's original catalogue The bidder shall have supplied similar laboratory equipment's during last five years The bidder should have submitted past experience in supplying similar laboratory equipment Delivery, supply and Installation must be done by the supplier Training session related to the instrument should provided by the supplier | |

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| 14 | Air conditioning trainer kit | | Should be able to take Pressure and temperature measurements taken around the refrigeration circuit |
| | | | Should be able to measure Relative humidity and temperature upstream and downstream of the evaporator |
| | | | Should be able to use to Learn to use Psychrometric charts |
| | | | Should be able to Determine enthalpy change in the air flow |
| | | | Should be able to Learn to use a Pressure-Enthalpy chart |
| | | | Should be able to Determine Coefficient of Performance (COP) |
| | | LCD display | Yes. For all measured parameters |
| | | Dimensions of the air conditioning trainer kit | 900 mm wide x 500 mm front to back x 800 mm high or closest |
| | | Operating Environment | Operating Environment |
| | | Operating temperature range | 0°C to +30°C or closest |
| | | Electrical Supply compatibility | 230 V / 50 Hz (Phase voltage) |
| | | Data acquisition | Yes. For all measured and important parameters |
| | | Connectivity | Connectivity included featuring data acquisition via USB |
| | | Software | Yes. For data acquisition and processing. Should be compatible with windows 7 or newer versions |
| | | Manufacturer | Should be ISO9001 certified |
| | | Warranty | 5 Years or more |
| | | Other comments | Above related specification should have marked in the manufacturer's original catalogue The bidder shall have supplied similar laboratory equipment's during last five years The bidder should have submitted past experience in supplying similar laboratory equipment Delivery, supply and Installation must be done by the supplier Training session related to the instrument should provided by the supplier |
| | | | |

15 Laboratory scale steam power plant

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| | Should be able to gain insight into the first and second laws of thermodynamics |
| | Should be able to measure Relative humidity and temperature upstream and downstream of the evaporator |
| | Should be able to use to Learn to use Psychrometric charts |
| | Should be able to Determine enthalpy change in the air flow |
| | Should be able to Learn to use a Pressure-Enthalpy chart |
| | Should be able to Determine Coefficient of Performance (COP) |
| LCD display | Yes. For all measured parameters |
| Dimensions of the air conditioning trainer kit | 900 mm wide x 500 mm front to back x 800 mm high or closest |
| Operating Environment | Operating Environment |
| Operating temperature range | 0°C to +30°C or closest |
| Electrical Supply compatibility | 230 V / 50 Hz (Phase voltage) |
| Data acquisition | Yes. For all measured and important parameters |
| Connectivity | Connectivity included featuring data acquisition via USB |
| Software | Yes. For data acquisition and processing. Should be compatible with windows 7 or newer versions |
| Manufacturer | Should be ISO9001 certified |
| Warranty | 5 Years or more |
| Other comments | Above related specification should have marked in the manufacturer's original catalogue The bidder shall have supplied similar laboratory equipment's during last five years The bidder should have submitted past experience in supplying similar laboratory equipment Delivery, supply and Installation must be done by the supplier Training session related to the instrument should provided by the supplier |

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.

| | |
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| CC 1.1(i) | The Purchaser is: AHEAD Project, 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 Director Procurement Uva Wellassa University, Passara Road, Badulla. |
| CC 11 | Goods shall be supplies in compliance with the quality and the specification given. |
| CC 15.1 | CC 15.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows: For Goods offered within Sri Lanka Payment shall be made in Sri Lankan Rupees within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed. a) No Advance payment applicable for this contract b) Up to a maximum of ninety (90) percentage of the Contract Price, shall be paid on receipt of the Goods and confirm by the evaluation committee. c) Ten (10) percentage of the Contract price will be hold as Retention for a period of 12 months from the date of commissioning of equipment. d) The Retention shall be paid on completion of Twelve (12) months. During that period supplier shall correct all defects and confirmed by the purchase or his agent. |
| CC 17.1 | A Performance Security – 10% Performance security may be in any of the following way (a) A Bank guarantee issued by a reputed bank operated in Sri Lanka. (b) Cash deposit at the Shroff Counter of the University |
| CC 26.1 | The liquidated damage (Late Delivery) shall be: 1% from the contract sum, per week. |
| 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. |

“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”