

**DEMOCRATIC SOCIALIST REPUBLIC OF
SRI LANKA**



UVA WELLASSA UNIVERSITY

**SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF
LABORATORY EQUIPMENT FOR
FACULTY OF SCIENCE AND TECHNOLOGY**

UWU/G/NCB/17/02

BIDDING DOCUMENT

Bid Opening On	17 th July 2017 – 3.00 p.m.
Bid Validity up to	91 days from 17 th July 2017

Uva Wellassa University
Passara Road,
Badulla,

Sri Lanka.

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UVA WELLASSA UNIVERSITY INVITATION FOR BIDS



SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF LABORATORY EQUIPMENT FOR FACULTY OF SCIENCE AND TECHNOLOGY UWU/G/NCB/17/02

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

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 Senior Assistant Bursar / Supplies, Uva Wellassa University, Passara Road, Badulla, (Tel. No: 055-2226475, Fax No: 055-22266633), and inspect the bidding documents at the Procurement Division of the University between 9.00 am to 3.30 pm from **27th June 2017 to 17th July 2017.**
4. A complete set of bidding documents in English may be purchased by interested bidders on submission of a written application to the Senior Assistant Bursar Supplies Uva Wellassa University, Passara Road, Badulla and upon payment of a non-refundable fee of Rupees 10,000/= 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. 10,000/= 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 cash receipt/deposit slip to be attached with the bidding documents. The documents may be purchased until **3.00 p.m. 17th July 2017.**
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 17th July 2017** Please indicate the "**SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR FACULTY OF SCIENCE AND TECHNOLOGY - UWU/G/NCB/17/02**" on the top left hand corner of the envelope.
6. All bids must be accompanied by a Bid Security addressed to the **Chairman, Department Procurement Committee, Uva Wellassa University**, valid for 150 days from the date of the bid opening. The Value of the Bid Security shall be **Rs. 630,000.00**
7. Pre Bid meeting will be held on **10th July 2017, 11.00 a.m.** In the Board Room of Uva Wellassa University.
8. 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 Clause No.5.
9. 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 provide 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 providing 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
ITB 1.1	The name and identification number of the Contract are: SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR FACULTY OF SCIENCE AND TECHNOLOGY Contract No- UWU/G/NCB/17/02
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: Senior Assistant Bursar/Supplies Address: Uva Wellassa University, Passara Road, Badulla. Telephone: 055-2226475 Electronic mail : uwu.p15@gmail.com
	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 • Manufacture 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 validity until: 91 days from 17th July 2017
ITB 20.1	Bid shall include a Bid Security in any of 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 (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: Rs. 630,000.00 Beneficiary: Vice Chancellor, Uva Wellassa University. The validity period of the bid security shall be until 150 days from the date of Bid closing
	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 FACULTY OF SCIENCE AND TECHNOLOGY Contract No- UWU/G/NCB/17/02
ITB 23.1	For bid submission purposes, the Purchaser's address is: Attention: Senior Assistant Bursar Address: Uva Wellassa University, Passara Road, Badulla. The deadline for the submission of bids is Date: 17th July 2017 Time: 03.00 p.m.
ITB 26.1	The bid opening shall take place at: Address: Board Room, Uva Wellassa University, Passara Road, Badulla. Date: 17th July 2017 Time: 03.00 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/G/NCB/17/02

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 FACULTY OF SCIENCE AND TECHNOLOGY Contract No - UWU/G/NCB/17/02** said Price Schedule amounting to Rupeesand cents
..... (Rs) only

I / We undertake to **SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR FACULTY OF SCIENCE AND TECHNOLOGY** 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.....



**SUPPLY, DELIVERY, INSTALLATION & COMMISSIONING OF LABORATORY EQUIPMENT FOR
FACULTY OF SCIENCE AND TECHNOLOGY**

Contract No- UWU/G/NCB/17/02

Price Schedule

Item No	Description	Qty	Unit price (Excluding Taxes)	Total Price (Excluding Taxes)	Taxes	Total Price Including Taxes
1	Fume Hood	05				
2	X Ray Defractometer	01				

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 4 Weeks of the Order	


* Destination of delivery: - Faculty of Science and Technology
Uva Wellassa University,
Passara Road,
Badulla.

2. Technical Specifications

The bidder shall follow the following technical requirement and other requirement

Technical Specifications

SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF EQUIPMENT FOR FACULTY OF ANIMAL SCIENCE AND EXPORT AGRICULTURE - DEPARTMENT OF EXPORT AGRICULTURE- UWU/G/NCB/17/03				
No	Item	Specifications	Qty	Bidders' Response
1	Fume Hood	<p>Fume hood shall function as ventilated, enclosed workspaces, designed to capture, contain and exhaust fumes, vapors and particulate matter produced or generated within the enclosure.</p> <p>Structure and Materials of construction</p> <ul style="list-style-type: none"> · Hood should be a double-wall construction · Should be epoxy-coated, cold rolled steel exterior with high chemical resistivity · Galvanized steel support members · Chamber interior should be epoxy-coated, stainless steel (type 316 or 304) with high chemical and heat resistivity · Chain and Sprocket Sash support system should be available · Energy-efficient hood lighting through a pre-wired, electronic ballast. Typical light intensity on work surface is 930 lux in zero ambient condition. · Hoods shall be equipped with sufficient fluorescent or incandescent lighting. The light fixture shall be easily accessible from the outside of the hood, shall be shielded from the hood interior by a laminated or tempered glass panel, and shall be vapor sealed. · U-PVC exhaust collar should be available to ensure superior chemical resistance. · Exhaust motors and duct systems for hoods are to be sized and designed to provide an average hood face velocity of 80-100 LFM, as measured at the face, with the sash wide open. Deviations in this value shall not be greater than 20% at any point across the hood face. · Standard service fixtures included: 1 remote-controlled water fixture, 1 remote-controlled gas fixture and 1 Polypropylene drip cup. · Four (4) single electrical outlets with splash-proof cover should be provided. · Hood sidewalls shall be properly formed to present a smooth airfoil to the inflowing air. · After fabrication and before final assembly, all component parts shall be given an acid, alkali and solvent resistant finish on both exterior and interior surfaces. 	5	

		<p>Baffles</p> <ul style="list-style-type: none"> · Perforated primary baffle should be designed to pull air in horizontal streams to minimize the air roll pattern associated with traditional fume hoods. · Baffle slot pattern should be designed to optimize face velocity profile. · A secondary baffle should be located behind the primary perforated baffle to counteract upward air streams that produce roll. <p>Safety Features</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 should be made from polycarbonate to prevent hydrofluoric acid fume etching · Hood should be incorporated a perforated sash handle to bleed air into the hood chamber directing fume concentrations away from the user's breathing zone. · Sash stop limits sash movement beyond 457mm (18.0”), ‘encouraging’ user to work a safe positions. · When sash is raised above 457mm (18.0”), it should automatically and gently fall back to the safe level (Esco’s creep-down mechanism) unless held in place. This allows the sash to be raised temporarily to the full open position for set up of equipment and apparatus in hood, while enforcing regular operation of the hood with lowered sash · Sash key lock feature should be available to allow 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 should be available (aids in the efficient flow of air towards the hood. It also helps reduce turbulence and eliminate back flow) · Should be Ergonomic sash handle to gently direct air into the hood without sacrificing visibility. <p>Required Standards</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 		
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		<p>General Specifications</p> <p>Exterior dimensions (W x D x H): With Fully-opened Sash 1220 x 900 x 1603 mm (48.0" x 35.4"x 63.1")</p> <p>Interior dimensions (W x D x H): 996 x 675 x 1230 mm (39.2" x 26.6"x 48.4")</p> <p>Exhaust Volume/ Static Pressure Required: 0.3 m/s (60 fpm)</p> <p>Fluorescent Lamp Intensity: 930 lux (86.3 foot-candles)</p> <p>Sash Material should be Polycarbonate</p> <p>Sash Configuration: Vertical or Combination Sloping 5°</p> <p>Maximum Sash Opening 740 mm (29.1")</p> <p>Power 220-240 VAC, 50-60 Hz, 1Ø</p> <p>Services:</p> <ul style="list-style-type: none"> ·Furnishing and delivering all service outlets, accessory fittings, electrical receptacles and switches, as listed in these specifications ·Plumbing fittings mounted on the fume hood superstructures should be done · Final plumbing and electrical connections should be provided · Letter of authority required from the manufacturer · Documentary evidence of requested specifications should be provided clearly by making on manufacturer's literature where necessary. · Suggesting item should be a world reputed brand with at least ten years satisfactory sales record including in Sri Lanka <p>The proposed model should have been recently introduced to the market and should not be in phase out stage.</p>		
2	X Ray Defractometer	<p>Specification for X-Ray Diffractometer</p> <p>Instrument must have the relevant accessories to probe wide-angle x-Ray scattering and small-angle x-Ray in addition to the powder diffraction measurements.</p> <p>X-ray generator and necessary cooling system (if applicable) must be provided with the instrument.</p> <p>Following specifications for X-ray generator is desired.</p> <p>Maximum rated output: between 2 kW to 4 kW (higher output is preferred)</p> <p>Rated tube voltage: 20 to 60 kV</p> <p>Rated tube current: 2 to 60 mA</p> <p>Target: Cu is preferred</p> <p>Goniometer should have the following specifications</p> <p>Scanning mode: θs/θd coupled or θs, θd independent</p> <p>2θ linearity ± 0.01 or better</p>	1	



	Minimum step size: At least 0.0001° is preferred		
	Sample size:		
	For WAXS/Powder diffraction		
	At least 2 cm diameter sample cell with automatic sample positioning is needed (at least 6 samples positioning holder/cabinet or relevant accessory is needed)		
	Individual sample rotation capability is needed		
	Standard samples must be provided with the instrument to check the precision of the instrument configuration		
	Zero-background sample holders must be provided		
	For Small angle X-ray Scattering		
	Necessary sample loading accessories to load solid as well as liquid samples must be provided.		
	If liquid samples are loaded into quartz capillaries, branded quartz capillaries (at least 100 numbers) must be provided		
	Sample holders for liquid as well as solid must be provided with the instrument		
	Temperature controller (if available) is preferred		
	Inert sample environment (if available) is preferred		
	If vacuum path is needed for the measurement, branded vacuum pump must be provided with the instrument		
	If the instrument have to align for the SAXS measurements, the standard sample to check the precision of alignment must be provided		
	Necessary optics must be provided for both powder diffraction and SAXS		
	Divergence slit: Fixed or automatic variable:		
	Scattering slit: Fixed or automatic variable		
	Receiving slit: Fixed or automatic variable		
	If above slits are used, they must be provided with the instrument		
	If Monochromator is needed it must be provided		
	Maximum weight: Less than 1500 kg		
	Branded desktop computer, UPS, branded laser printer and all the related software to run the samples as well as analyze the data, and standard database must be provided with the instrument		
	ICDD reference database must be included. If supported open source data base must be provided		
	Power supply must be compliance with the Sri Lanka Standards. If voltage convertor is needed, it must be provided with the instrument		
	Full-automated alignment under computer control is preferred		
	Additional Required Features		

		<p>If possible accessories for X-ray reflectivity should be provided/or quoted as optional</p>		
		<p>Ability to do micro-crystalline diffraction, thin-film diffraction, small angle scattering, and in-plane scattering, X-ray reflectivity. If the accessories are needed it should be quoted</p>		
		<p><u>Important.</u></p>		
		<p>Quoted X-ray instrument must have the Small angle X-ray scattering, wide angel X-ray scattering and powder diffraction capability and necessary equipment and necessary software to do the measurements and analyze the data.</p>		
		<p>If possible accessories for X-ray reflectivity should be provided/or quoted as optional</p>		



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: Senior Assistant Bursar Address: Uva Wellassa University, Passara Road, Badulla. Telephone:055-2226475/ 055-2226533
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 equipments. 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.