



**Uva Wellassa University of Sri Lanka  
Badulla**

**BIDDING DOCUMENT FOR**

**DESIGN AND FURNISH OF FLUID MECHANICS AND  
THERMODYNAMICS LABORATORY OF DEPARTMENT OF  
ENGINEERING TECHNOLOGY, FACULTY OF  
TECHNOLOGICAL STUDIES**

**CONTRACT NO : UWU/P/GOODS/NCB/20/04**

**EMPLOYER:**

Vice-Chancellor,  
Uva Wellassa University of Sri Lanka,  
Badulla

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# **VOLUME 1A**

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## Section – I INSTRUCTIONS TO BIDDERS

### **Refer the CIDA/SBD 04**

*Notes:*

*Instructions to Bidders shall be read in conjunction with Bidding Data. Matters relating to the performance of the Contractor, payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are not included in this Section, but are given in Section III – Conditions of Contract, Volume 1 and the Contract Data under Section IV, Volume 2*

*Instructions to Bidders will not be a part of the Contract and will cease to have effect once the Contract is signed.*

## Section – III CONDITIONS OF CONTRACT

### **Refer the CIDA/SBD 04**

*Conditions of Contract shall be read in conjunction with Contract Data*

## Section – V STANDARD FORMS

*Form of Bid Security, Letter of Acceptance, Form of Agreement, Form of Performance Guarantee, Form of Mobilization Advance Guarantee, Form of Retention Money Guarantee*

### **Refer the CIDA/SBD 04**

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# **VOLUME 1B**

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# INVITATION FOR BIDS (IFB)



## DESIGN AND FURNISH OF FLUID MECHANICS AND THERMODYNAMICS LABORATORY OF DEPARTMENT OF ENGINEERING TECHNOLOGY, FACULTY OF TECHNOLOGICAL STUDIES

**Contract No: UWU/P/GOODS/NCB/20/04**

The Chairman, Procurement Committee on behalf of the Vice-Chancellor, Uva Wellassa University of Sri Lanka invites sealed bids from eligible and qualified bidders for the Design, Build and Completion of Elementary Laboratory of Department of Biosystems Technology, Faculty of Technological Studies, Uva Wellassa University

1. The contract period is **180 days**. (The all-inclusive budget allocation with taxes shall be less than 20 million)
2. Bids should be submitted on the forms which could be purchased from **Deputy Bursar – Supplies Division, Uva Wellassa University**, Passara Road, Badulla and upon payment of a non-refundable fee of Rupees **3,500/=** in cash paid 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 favor of the “Vice Chancellor, Uva Wellassa University” for **Rs. 3,500/=** 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 12.30 PM 05<sup>th</sup> October 2020**. The eligible bidders shall comply with CIDA registration in SP2 category or above or Business Registration in Building Design and furnishing
3. You may obtain further information from, “**Deputy Bursar Supplies**”, (Telephone – **055 2226475**) Uva Wellassa University, Passara Road, Badulla
4. Bidding documents may be inspected free of charge at the Office of the **Deputy Bursar (Supplies Division)** at Uva Wellassa University of Sri Lanka. during any working days from 09.00 am to 03.00 pm up to **04<sup>th</sup> October 2020**.
5. Bids must be delivered to addressing, Chairman, Procurement Committee, Uva Wellassa University, Passara Road, Badulla, on or **before 2.30 p.m. on 05<sup>th</sup> October 2020**. Please indicate “**DESIGN AND FURNISH OF FLUID MECHANICS AND THERMODYNAMICS LABORATORY OF DEPARTMENT OF ENGINEERING TECHNOLOGY, FACULTY OF TECHNOLOGICAL STUDIES**” Contract No :- **UWU/P/GOODS/NCB/20/04** on the top left hand corner of the envelope.

6. The bid shall be validity until: **91 days from 05<sup>th</sup> October 2020.**
7. All bids must be accompanied by a Bid Security of **Rs. 200,000/=** which should be in favor of Vice Chancellor – Uva Wellassa University, obtained from a Bank approved by the Central Bank of Sri Lanka.
8. Pre Bid meeting will be held on **24<sup>th</sup> September 2020**, at 11.30am in the Board Room- Administration Building of Uva Wellassa University.
9. 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.
10. 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,  
Procurement Committee,  
Uva Wellassa University,  
Passara Road,  
Badulla



## **Section - II**

# **BIDDING DATA**

*Note :*

*This section shall be read in conjunction with Section I –*

*Instruction to Bidders, and is intended to provide specific information in relation to corresponding Clauses in Section I. Whenever there is a ambiguity, the provisions in Section II- Bidding Data shall supersede these in the Section I- Instructions to Bidders.*

## Instructions to Bidders Sub Clause

Item	Sub Clause	Entry
<b>Employer's name and address</b>	<b>1.1 &amp; 9.1</b>	<p>The Employer Name: Vice-Chancellor</p> <p>Address: Uva Wellassa University of Sri Lanka, Badulla</p>
<b>Scope of Works</b>	<b>1.1</b>	<p>The works consists of designing and furnishing of existing laboratory space in the new faculty building into a fully-fledged Laboratory with necessary civil, MEP services conforming with safety standards.</p> <p>Bidders are instructed to visit the place before submitting the proposal.</p> <p>Allocation of funds including all taxes is Rs 20.0Mn. This includes costs for furnishing, civil works, MEP works, design &amp; supervision charges, charges for laboratory testing, if any and defect liability cost. Price Escalation is not applicable and it has to be included in the cost when quoting.</p> <p>Bidder shall submit proposed designs, drawings, bidder's specifications and details relevant to employer's requirement for the proposal as much as possible for technical evaluation purpose <b>(Envelop-2)</b> with the bid.</p> <p>This bidding document includes clients requirements and objectives of finished products which the bidder shall consider and oblige into the design and furnishing.</p> <p>The bidder should submit necessary details in order to match for Technical Proposal evaluation criteria under <b>Envelop-2</b> to allocate points without any difficulties.</p> <p>Location of the proposed laboratory is in the new faculty building of the Faculty of Technological Studies Uva Wellassa University in Badulla, Sri Lanka.</p>
<b>Time of Completion</b>	<b>1.2</b>	<p>The time for Completion for the whole of Works shall be <b>180 days</b>.</p>
<b>Delay damages for the Works</b>	<b>1.2</b>	<p>The delay damages for the whole of the Works shall be 0.05% of the initial Contract Price per day</p> <p>The maximum amount of delay damages for the whole of the Works shall be 5% percent of the Initial Contract Price.</p>
<b>Defects Notification Period</b>	<b>1.2</b>	<p><b>Defects Notification Period is 365 days</b> from Employer's taking over</p>

<b>Source of funds</b>	<b>2.1</b>	GOSL
<b>CIDA registration required</b>	<b>3.1</b>	If possess only CIDA registration, Grade C6 or above are eligible.
<b>Eligible bidders</b>	<b>3.4</b>	Foreign bidders are not allowed.
<b>Qualification Information</b>	<b>3.1, 3.2 4.1</b>	<ul style="list-style-type: none"> <li>• CIDA Registration (SP2 or above) or Valid Business Registration in the business. <ul style="list-style-type: none"> <li>Registration number</li> <li>Grade</li> <li>Specialty</li> <li>Expiry Date</li> </ul> </li> <li>• VAT Registration number if any</li> <li>• Attach Construction Programme</li> <li>• Attach Legal Status (Sole proprietor, Partnership, Company etc.)</li> <li>• Attach authentication for signatory</li> <li>• Total monetary value of construction work performed for each of the last three years;</li> <li>• Experience in 3 similar works and at least one work of similar nature and size of Rs. 20 million during the last three years.</li> <li>• Staffing</li> <li>• Attach Work Plan and methods statement</li> <li>• Preliminary drawings and elevations of the proposal.</li> <li>• Attach certified copies of financial statements of the organization such as Audited accounts to facilitate for evaluation of financial stability such as turnover, liquid assets, liabilities, working capital, credit facilities, etc.</li> <li>• <b>Certificate of Registration under Public Contract Act.</b></li> </ul>
<b>Average annual volume of construction work performed in last five</b>	<b>4.3(a)</b>	Average annual volume of work performed in last three years shall be at least Rupees 30 million. Supporting documents proving above shall be attached along with the bidding document
<b>Liquid assets and/or credit facilities required</b>	<b>4.3 (g)</b>	The minimum amount of liquid assets and/or credit facilities net of other contractual commitments and exclusive of any advance payments which may be made under the contract shall be not less than Rupees 08

		million.
<b>Bid Price</b>	<b>13.3</b>	VAT component shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However VAT component shall be shown separately at the end of the price schedule summary.
<b>Contract is subject to price adjustment for fluctuation of prices</b>	<b>13.6</b>	The Bidder shall consider the intended cost variations during pricing the bid. The Contract is <b>not</b> subject to price adjustment in accordance with Clause 13.7 of the Conditions of Contract.
<b>Currency of Bid</b>	<b>14.1</b>	The currency of the bid price shall be only in Sri Lankan Rupees.
<b>Bid validity period</b>	<b>15.1</b>	The bid shall be validity until: <b>91 days from 05<sup>th</sup> October 2020</b>
<b>Amount of Bid security</b>	<b>16.1</b>	The amount of Bid security shall be Sri Lankan Rupees <b>200,000 .00</b>
<b>Validity of Bid security</b>	<b>16.2</b>	The validity period of the bid security shall be <b>120 days</b> from the closing date of the Bid, Only Bank Bonds of Central bank approved Banks and Bonds issued by CGF are acceptable
<b>Pre-Bid meeting</b>	<b>17.1</b>	Pre Bid meeting will be held on <b>24<sup>th</sup> September 2020</b> Venue : Board Room- Administration Building of Uva Wellassa University Time: <b>11.30AM</b>
<b>Sealing and marking of Bids</b>	<b>19.2</b>	The following information also shall be included in the inner covers of envelope marked as " <b><u>Envelope 1</u></b> – Preliminary Information": <ul style="list-style-type: none"> <li>(i) Schedule," Annual turn-over Information",</li> <li>(ii) Schedule, " Adequacy of Working capital",</li> <li>(iii) Schedule, " Consultant experience in last three Years",</li> <li>(iv) Schedule, "Construction experience in last three Years",</li> <li>(v) Schedule, "Minimum Major items of construction equipment proposed",</li> <li>(vi) Bank Bond for Bid Security</li> <li>(vii) Company Profile indicating the past construction experiences</li> </ul> <p>The following information also shall be included in the inner covers of envelope marked as "<b><u>Envelope 2</u></b> – Design / Technical Proposal":</p>

- (i) Schedule, “Team composition and Task assignment”,
- (ii) Curriculum vitae of key staff;
- (iii) Schedule, “ Time schedule for key staff”,
- (iv) Work Program (Design related activities);
- (v) Work Program (Construction related activities);
- (vi) Specifications, Technical Data regard to intended goods to be used under this contract/ (such as Furniture, services etc.)

**19.4** The following information also shall be included in the inner covers of envelope marked as “**Envelope 2-** Financial Proposal”,

- (i) Day work rates schedule;
- (ii) Schedule, “Overhead and profit percentage for Provisional Sum activities”
- (iii) Schedule, “ Input percentage for price adjustments”

**19.5 (a)** The Employer’s address for the purpose of Bid submission: Vice Chancellor, Uva Wellassa University of Sri Lanka.

**19.5 (b)** Contract Name: **Design & Furnish of Fluid Mechanics and Thermodynamics Laboratory of Department of Engineering Technology, Faculty of Technological Studies**

**Deadline for submission of Bids**

**20.1** The deadline for submission of Bids shall be **2.30 p.m. on 05<sup>th</sup> October 2020**

Address for submission of Bids:

Vice Chancellor, Uva Wellassa University of Sri Lanka

**Evaluation and comparison of Bids**

**27.0** For evaluation and comparison of Bids **Option- B.**

Weight for Design/Technical Proposal Shall be:

$$(0.25) \qquad \qquad \qquad DT = 25\%$$

Weight for Financial (Price) Proposal Shall be:

$$(0.75) \qquad \qquad \qquad P = 75\%$$

The formula for determining the financial scores are the following:

$$S_f = 100 \times F^m / F$$

In which,

$S_f$  = the financial score

$F^m$  = the lowest price and

$F$  = the price of the proposal under consideration

<b>Criteria</b>	<b>Maximum Points</b>
(i) Specific experience of the bidder or the composition of the Design Team related to the design of proposed Works	10
(ii) Overall compliance with the requirements of the bidding documents	10
(iii) Experience of the key Member of the Design Team	30
(iv) Work plan and time Schedules	15
(v) Preliminary Design approach	25
(vi) Any other improvements to the Employer's Requirements, suggested by the Bidder	10
Total	100

The following Sub Criteria will be used in assigning points to (i), (ii), (iv) and (v) above

- (a) Satisfactory - 50%
- (b) Good - 75%
- (c) Very Good - 100%

For allocating points for (iii) above, each key member of the Design Team will be assigned a weighting in accordance with their roles for the assignment. Subjected to the weightings assigned each key staff member will be evaluated using the following Sub Criteria.

- (a) General qualifications - 25%
- (b) Total experience - 25%

**Correction of Errors**

Experience related to the task - 50%

28. Replace ITB clause 28 with procurement Guideline ref 7.9.2. (b) Clause which is given below.

**Correction of arithmetical errors:**

Bids should be checked carefully for arithmetical errors in the bid to ensure the stated quantities and prices are consistent. The quantities should be same as that stated in the bidding documents. The total bid price should be the total of all line items. The line item total should be the product of quantity and unit rate quoted or, when a lump sum

is quoted the lump sum amount. If there is a discrepancy a correction has to be done and the corrected price as describe below is considered as the bid price. After the correction of arithmetical errors the PE should notify in writing, each bidder of the detailed changes. A bidder shall agree for such arithmetical corrections made to his bid. If the bidder refuses to accept its bid shall be rejected and action is taken against the bid security submitted.

**The correction of arithmetical errors should be done as follows:**

(i) where there is a discrepancy between the amounts in figures and in words, the

amount in words will prevail;

(ii) where there is a discrepancy between the unit rate and the line item total

resulting from multiplying the unit rate by the quantity, the unit rate as quoted

will govern, unless in the opinion of the PE that there is an obviously gross

misplacement of the decimal point in the unit rate, in which case the line item

total as quoted will govern and the unit rate will be corrected; and

(iii) If the bid price changes by the above procedure, the amount stated in the Form of

Bid shall be adjusted with the concurrence of the bidder and shall be considered as binding upon the bidder.

**Amount of Performance**

- 32.1 The standard form of Performance Security acceptable to the Employer shall be Bank Guarantee from a Bank

**Security**

approved by the Central Bank of Sri Lanka for this purpose. Insurance Guarantee will not be accepted for this purpose.

The amount of Performance Security is 5 % of the Initial Contract Price from a Bank authorized by the Central Bank of Sri Lanka.

**Percentage of retention**

**34.1** The retention from each payment shall be 10% percent.  
The limit of retention shall be 05% percent of the Initial Price.

**Minimum amount of Interim Payment Certificates**

**34.2** 4 % of Initial Contract price.

**Adjudicator proposed by Employer**

**(35.1)** The Adjudicator proposed by the Employer shall be nominated at the occasion.

If the Bidder disagrees with the proposal of the Employer or the Adjudicator was not proposed, then the Adjudicator shall be appointed by the Appointing Authority who shall be the Institute for Construction Industry Development Authority (CIDA)

*Fees and types of reimbursable expenses to be paid to the Adjudicator shall be on a case basis and shall be shared equally by the Contractor and the Employer:*

Technical Proposal Evaluation Criteria		Maximum Points
(i)	a) Specific experience of the bidder or the composition of the Design Team related to the design of proposed Works	6
	b) Previous clients' feedback about bidder's completed work in 2018 and 2019 ( Bidder is required to furnish the details of Works completed of similar nature/size in last 2 year including Contact person, contact number	4
	<b>Total points for criteria (i)</b>	<b>10</b>
(ii)	Overall compliance with the requirements of the bidding documents	<b>10</b>
(iii)	Experience of the key Member of the Design Team	
	a) Team Leader(Interior Design	20



	Expert)	
	b) Site Staff – Technical Staff including computer network and services officer	10
	<b>Total points for criteria (iii)</b>	<b>30</b>
(iv)	Work plan and time Schedules	
	a) Work Plan	05
	b) Time Schedule	05
	c) Organization and Staff	05
	<b>Total points for criteria (iv)</b>	<b>15</b>
(v)	Preliminary Design approach	
	a) Preliminary design proposal and options (if any) including schematic designs	7.5
	b) Detailed design proposal and options (if any) including schematic design of all components	7.5
	c) Presentation of the design proposal and options during the bid evaluation period. Cost should be borne by the bidder	05
	d) Technical approach, methodology	05
	<b>Total points for criteria (v)</b>	<b>25</b>
(vi)	Any other improvements to the Employer's Requirements, suggested by the Bidder	<b>10</b>
	<b>Total</b>	<b>100</b>
<p>The minimum Technical scope to pass is <b>65 points</b></p> <p>Clause 27.5 : Each responsive Design/Technical proposal will be given a technical score(St) as above. A proposal shall be rejected at this stage if does not respond to important aspects of the employer's requirements or if it fails to achieve a minimum overall total points of 65% or if it fails to achieve a minimum of 50% under each criteria , other than criteria (vi) given above, or if it fails to achieve a minimum of 50% under each sub criteria(a,b) as given above</p>		

## Section – IV CONTRACT DATA

Note:

This section shall be read in conjunction with section III- Conditions of Contract, and is intended to provide specific information in relation to corresponding Clauses in section III. Whenever there is an ambiguity, the provisions in section IV – Contract Data shall supersede these provided in the Section III – Conditions of Contract.

### Contract Data

**Sub Clause 1.1.2.2**     **Employer is:** Vice-Chancellor,

Address: Uva Wellassa University of Sri Lanka, Badulla,

**Employers Representative :** Dean, Faculty of Technological Studies

Address: Uva Wellassa University of Sri Lanka, Badulla,

**Sub Clause 1.1.2.4**     **Engineer is:** Project Manager - Operations,

Address: Uva Wellassa University of Sri Lanka, Badulla,

**Sub Clause 1.1.5.6**     Not Applicable

**Sub Clause 3.1**         **Engineer's Duties and Authority**

The Engineer shall obtain the specific approval of the Employer before taking action under the following Sub Clause of these Conditions:

- (a) Consenting to the subletting of any part of the Works under Sub Clause 4.4 (b);
- (b) Approving an extension of the Time for Completion, and/or any additional payments under Sub Clause 19.1 (*contractor's claim*) issuing variation under Sub Clause 13.1 (*Right to vary Employer's Requirements*), except in an emergency situation, as reasonably determined by the Engineer.
- (c) Approving additional payment under Sub Clause 13.3

Notwithstanding the obligation, as set out above, to obtain approval, if in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibilities under the

Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply, despite the absence of approval of the Employer, with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 13.3 and shall notify the Contractor accordingly, with a copy to the Employer.

#### **Sub Clause 4.1**

#### **Key personnel**

Schedule of Key Personnel:

Names with qualifications and experience to be written :

##### **(a) Project Management**

- Team Leader/(Interior design expert)-

Should be a Senior Manager having at least 10 years experience in relevant industry especially in the design & build.

##### **(b) Design**

- Officer in charge in coordinating all activities and related services and Site supervisor

Officer in charge in coordinating all activities and related services shall be with suitable qualifications having at least 3 years experience in similar construction of (site organization, supervision, monitoring, planning as a technical officer) similar building interiors.

#### **Sub Clause 4.2**

#### **Performance Security**

The Performance Security shall be 5% percent of the Initial Contract Price.

The Standard Form of Performance Security acceptable to the Employer shall be a Bank Guarantee approved by the Central Bank of Sri Lanka or Bonds issued by CGF for this purpose.

#### **Sub Clause 8.1 Commencement of Work 8.1**

#### **Start Date:**

The Start Date is 14 Days from the issue of the Letter of Acceptance upon signing the agreement.

#### **Sub Clause 8.2**

#### **Time for Completion**

The time for completion for the whole of Works shall be **180 days**.

- Sub Clause 8.7**            **Delay Damages**  
The Delay Damages for the whole of the Works shall be 0.05% of the Initial Contract Price per day.  
The maximum amount of Delay Damages for the whole of the Works shall be 5% percent of the Initial Contract price.
- Sub Clause 11.1**        **Defects Notification Period**  
Defects notification Period is **365 days** from Taking – over Certificate.
- Sub Clause 13.6**        **Adjustments for Changes in Cost**  
Contract is **not applicable** to price adjustments for fluctuation of prices.
- Sub Clause 14.1**        **Contract Price**  
Successful bidder’s bid sum will be considered as the contract sum. Maximum budget allocation of the contract including taxes is Rs 20.0Mn.  
The Works described under Day Works is to be paid according to quantity supplied or work done.
- Sub Clause 14.3 (c)**    **Retention Money**  
The retention from each payment shall be 10%  
The limit of retention shall be 05% of the Initial Contract Price.
- Sub Clause 14.4**        **Issue of Interim Payment Certificates**  
Minimum amount of Interim Payment Certificates shall be 04% of the Initial Contract Price.  
Sub Clause 19.2 & 19.4 Failure to agree Dispute Adjudicator  
The appointing entity for appointing the Adjudicator is the Construction Industry Development Authority (CIDA)



## **Section – VI EMPLOYER’S REQUIREMENT**

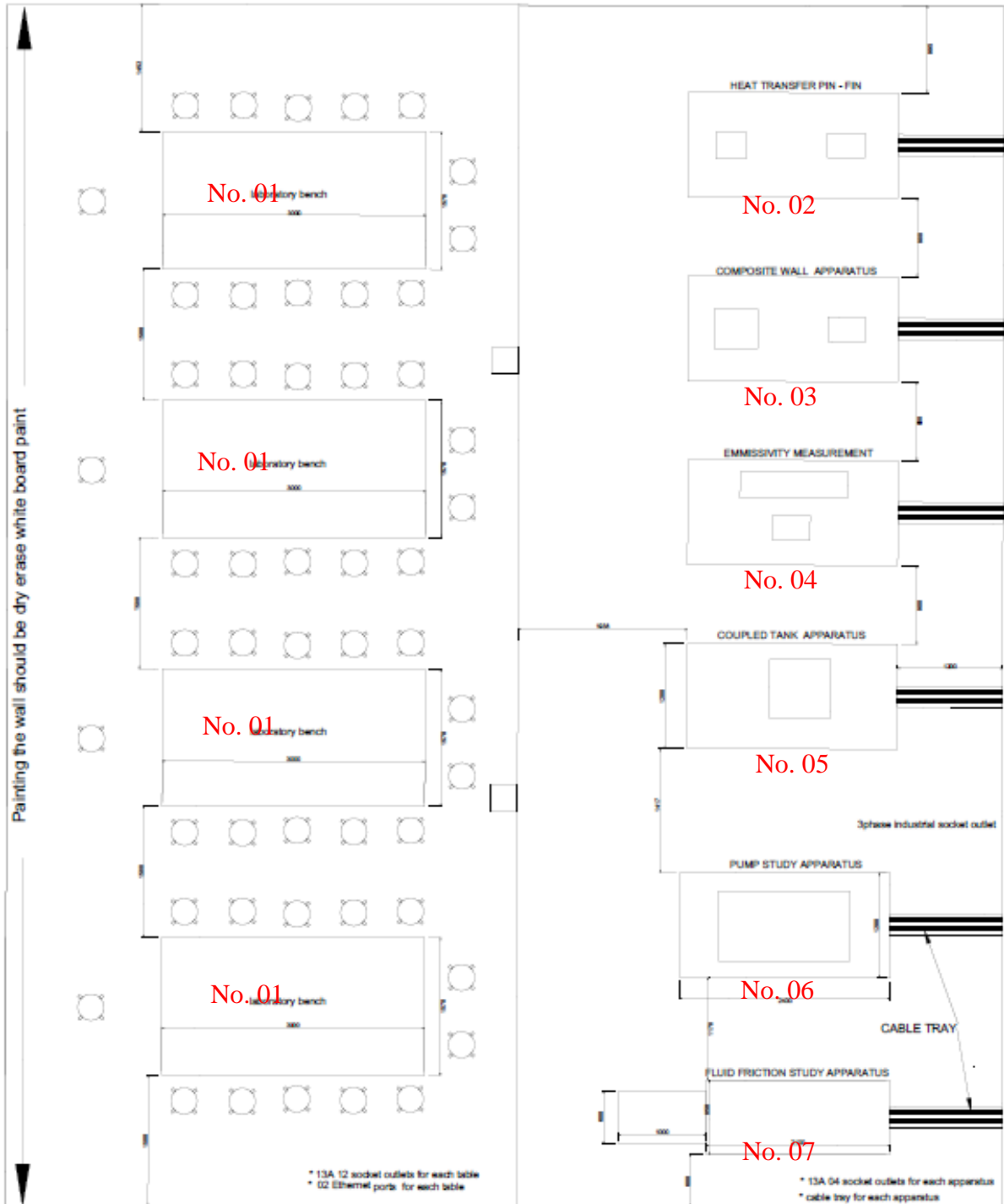
### **6.1 BASIC INFORMATION OF THE PROJECT**

1. Project Title : Design & Furnish of Fluid Mechanics and Thermodynamics Laboratory of Department of Engineering Technology, Faculty of Technological Studies
2. Executing Agency: Uva Wellassa University of Sri Lanka, Badulla
3. Funding Source: GOSL
4. Physical Information :

The works consists of designing interior for space (plan is given in Annexure 01) of new building of Faculty of Technological Studies, UWU to cater 100 students. For the demonstration of practical for 48 students, 04 laboratory benches (specification is given in Annexure 02 and drawing is given in Annexure 03) and 48 laboratory chairs (Annexure 04) are required. For the placing of fluid mechanics and thermodynamics laboratory equipment 06 tables (Specification is given in Annexure 05 and drawings are given in Annexure 06 – Annexure 08) are required. This work should cover the all the interior details design and supplying and fixing mainly (not limited to) all the lab workstations, laboratory chairs, other equipment and other floor and wall arrangements according to the given specifications. Rate to include fixing new items to existing system with all supports, ducting, inlet or out-let pipes, connections to existing power and water lines and rectifications etc.

The bidder is requested to follow standard safety measures during the execution of the work and the supplier is responsible for any damages made/ occurred to the university assets. Further, relevant security measures shall be taken by the supplier for storing of materials, tools and goods within the site until the handing over.

# PLAN OF ENGINEERING TECHNOLOGY LABORATORY



\* 13A 12 socket outlets for each table  
\* 02 Ethernet ports for each table

\* 13A 04 socket outlets for each apparatus  
\* cable tray for each apparatus

\* 13A 02 socket outlets for wall

NOTE :  
\* 13A socket outlet for all walls

**Annex 04**

**Specification for Laboratory Chair (52 Nos)**



**Materials:** Fabric without arm or similar

**Specifications**

- Hydraulic Gas Lift
- Height Adjustment
- Cushioned Seats & Backrest (18" to 22")
- Chrome foot ring (18" to 22")
- 360 degree movement
- 5 legged base
- Heavy Duty castors Wheel

**Dimensions:** Closest to the suggestion above

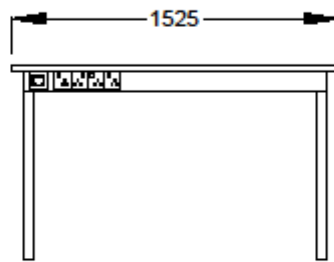
**Color:** Red

**Warranty:** Two years or more

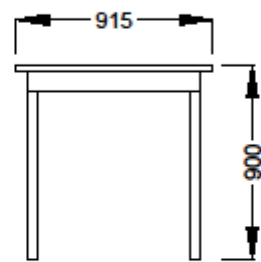


Feature	Required Specification
Color theme	Customized (according to the client)
<b>WORK TOPS</b>	
Material	Chemical and Heat resistant Epoxy Resin
Thickness	19 mm or more
Color	Customized (gray preferred)
Properties (Similar to following standard)	Test Method S.I
1. Compressive Strength	ASTM D695 136.5 MPa
2. Flexural Strength	ASTM D790 55.1 MPa
3. Heat Distortion Temperature	ASTM D648 200°C
4. Rockwell 'M' Hardness	ASTM D785 90
5. Fire Resistance	ASTM D635 Self Extinguishing
6. Water Absorption	ASTM D570 0.022%
7. Density	ASTM D792 1.95g/cm3
Testing	Chemical Resistance Test to ASTM D3023 and ASTM C1376
Chemical resistivity	No Detectable change in the material surface for Alcohols
Others	Certified Green Product
<b>LABORATORY TABLE STRUCTURE</b>	
Material	Epoxy powder coated Steel
Stainless Steel thickness	~ 2.0 mm
Coating	Should be Epoxy Powder Coated ( to match with color code)
Epoxy coated thickness	70 microns or better
Adjustable levelling feet	Should be available
<b>Table No. 01</b>	
(Height × Length × Width)	900 × 3000 × 1500 (Table No. 01 in the Annex 01 )
Electric Panel	12 Sockets (6 per one side) 13 A per table
<b>Table No. 02 – 07</b>	
(Height × Length × Width)	Given in the drawing annex 6 ,7 and 8
Electric Panel	Power : 02 Sockets 30 A, 02 sockets 13 A per table
	Ether net 01 per table
	<b>One drawer and cupboard per each table</b>
<b>UNDER BENCH CABINET, DRAWERS AND STORAGE CABINETS</b>	
Sheet Material	High pressure Sandwich melamine or WPC with high water resistance or a better solution
Doors open	Should be more than 180 degrees
thickness	~12 mm or better
Handles and connecting items	304 Stainless steel or better
Locks	Locks should be available 304 Stainless steel or better
<b>Warranty</b>	5 years or more
Manufacturer Authorization	Manufacturer Authorization Letter should be submitted

### COUPLED TANK APPARATUS

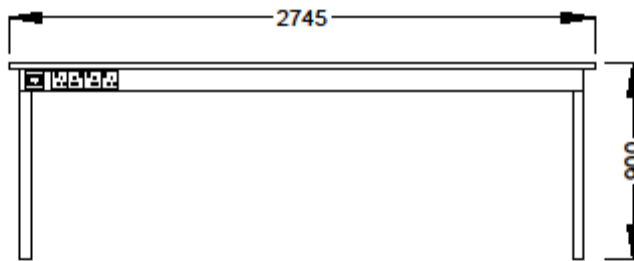


FRONT ELEVATION

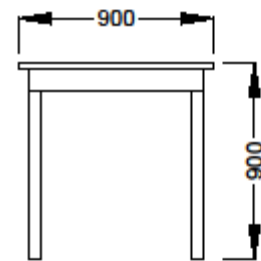


SIDE ELEVATION

### HEAT TRANSFER PIN - FIN

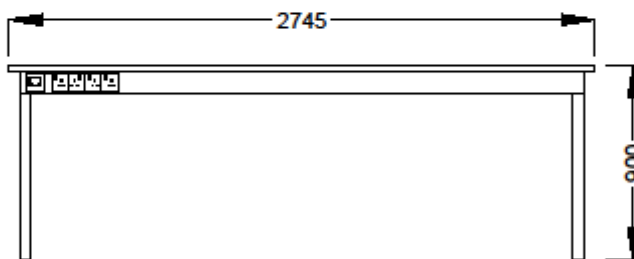


FRONT ELEVATION

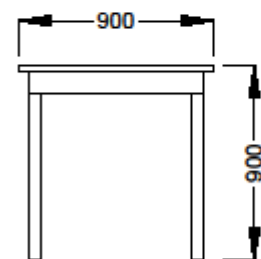


SIDE ELEVATION

### COMPOSITE WALL APPARATUS

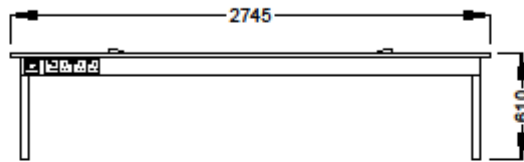


FRONT ELEVATION

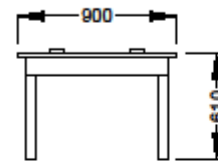


SIDE ELEVATION

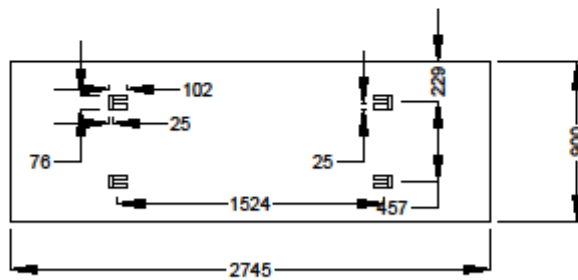
### FLUID FRICTION STUDY APPARATUS



FRONT ELEVATION

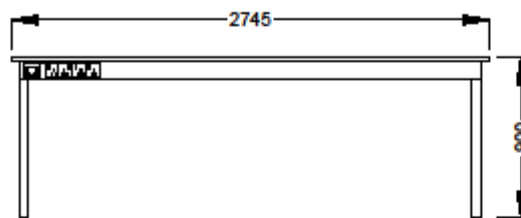


SIDE ELEVATION

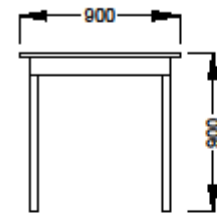


TOP ELEVATION

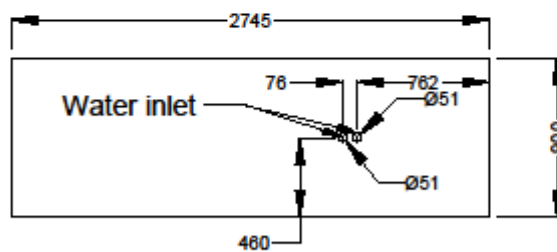
### EMMISSIVITY MESUREMENT



FRONT ELEVATION

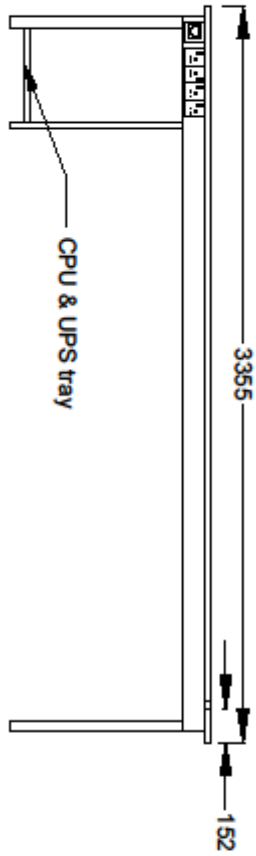


SIDE ELEVATION

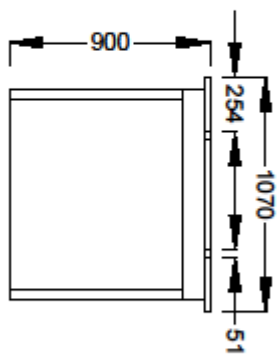


TOP ELEVATION

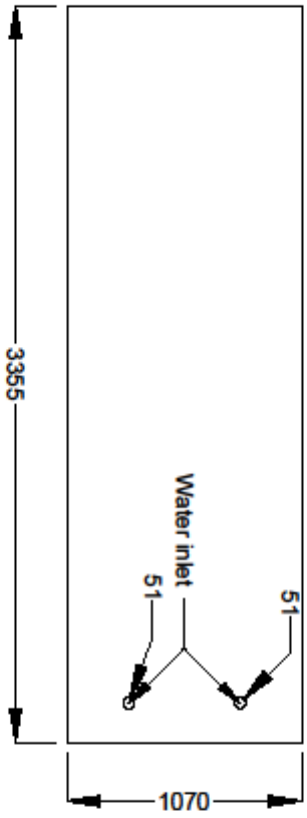
### PUMP STUDY APPARATUS



FRONT ELEVATION



SIDE ELEVATION



TOP ELEVATION

## **Section – VII (a)**

### **FORM OF BID**

#### **Design & Furnish of Fluid Mechanics and Thermodynamics Laboratory of Department of Engineering Technology, Faculty of Technological Studies**

To: Vice-Chancellor,  
Uva Wellassa University of Sri Lanka,  
Badulla

We have examined the Conditions of Contract, Employer’s Requirements, Schedules and Addenda Nos. .... for the execution of the above named Works We accordingly offer to design, execute and complete (Turnkey) the said Works and remedy any defects fit for the purpose, in conformity with the Bidding Documents and the enclosed, Proposal, at the lump sum price stated in the Form of Financial (Price) Proposal included in a separate envelope and submitted with this bid, or other such sums as may be determined in accordance with the terms and conditions of the Contract.

We confirm that our bid includes this General Information, Financial (Price) Proposal, and Design/Technical Proposal sealed under three separate envelopes.

We agree to abide by this Bid until 06<sup>th</sup> January 2021 and it shall remain bidding upon us and may be accepted at any time before that date.

We confirm that, we (including all members of a joint venture and subcontractors) are not associated, directly or indirectly, with the consultant or any other entity in preparation of the design, specification, and other documents for the contract.

If this offer is accepted, we will provide the specified Performance Security, commence the Works as soon as reasonably practicable after the Commencement Date, and complete the Works in accordance with the above - named documents within the Time for Completion. We will ensure that works will be done in conformity with the contract.

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

We understand that you are not bound to accept the lowest offer or any other bid you may receive.

.....  
Signature of the persons duly authorized to sign documents for and on behalf of .....

Address: .....  
.....  
.....

Date: .....

**Section – VIII (a)**

**SCHEDULES**

**Related to General Information**

### Schedule A 1 - Preliminary Information

*(enclose this schedule in the envelope marked, “ **Envelope 1** – general Information”)*

- (i) If pre qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application*
- (ii) For joint ventures, each joint venture partner shall furnish information separately*

ITB Clause reference	Description	Information (to be filled by the Bidder)	Remarks
<b>3.1</b>	<b>CIDA Registration or Business Registration or SP1</b>		Provide certified copies and label them as attachment to Clause 3.1
	Registration Number		
	Grade		
	Spatiality		
	Expiry Date		
<b>3.2</b>	<b>Business Registration or SP1</b>		Provide certified copies and label them as attachment to Clause 3.2
	Number		
	Expiry Date		
<b>4.1 (a)</b>	<b>Legal Status</b>		
	If a Joint Venture, names and addresses of Joint venture partners	1. .... 2. .... 3. ....	Provide certified copy of the Joint Venture Agreement.
	If a Joint Venture, names of the Lead Partner		
	For joint ventures, each joint venture partner shall furnish Legal Status separately.		
	<b>Name (Lead Partner)</b>		Provide certified copies and label them as attachment to Clause 4.1 (a)
	Legal status		
	Place of registration		
	Principal place of business		
	Written power of attorney of the signatory	Provide certified copy of the power of attorney attested by a Notary and label them as attachment to	

	to the Bid	Clause 4.1 (a)	
	VAT Registration Number		Provide certified copies and label them as attachment to Clause 4.1 (a)
	<b>Name (Partner 2)</b>		
	Legal status		
	Place of registration		
	Principal place of business		
	Written power of attorney of the signatory to the Bid	Provide certified copy of the power of attorney attested by a Notary and label them as attachment to Clause 4.1 (a)	
	<b>Name (Partner 3)</b>		
	Legal status		
	Place of registration		
	Principal place of business		
	Written power of attorney of the signatory to the Bid	Provide certified copy of the power of attorney attested by a Notary and label them as attachment to Clause 4.1 (a)	



**Schedule A 2 – Annual Turnover Information**

*(enclose this schedule in envelope marked “ **Envelope 1** – General Information”)*

- (i) If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.*
- (ii) For joint ventures, each joint venture partner shall furnish information separately.*

<b>Year</b>	<b>Turn –over</b>	<b>Remarks</b>
1		Attach relevant supporting documents to Clause 4.1 (a) (i)
2		
3		
4		
5		

**Schedule A 3 – Adequacy of Working Capital**

*(enclose this schedule in envelope marked “ **Envelope 1** –General Information)*

*If pre qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application*

<b>Source of credit line</b>	<b>Amount</b>	<b>Remarks</b>
		Provide documentary evidence and label them as attachment to Clause 4.1 (a) (ii)
Total		

**Schedule A 4 –Experience in last three years**

*(enclose this schedule in envelope marked, “**Envelope 1** – General Information)*

- (i) If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.*
- (ii) For joint ventures, each joint venture partner shall furnish information separately.*
- (iii) List similar works first.*

<b>Year</b>	<b>Employer</b>	<b>Project Name</b>	<b>Project Duration (Months)</b>	<b>Amount (Project Value)</b>	<b>Scope of Work</b>
		<b>Total</b>			

**Schedule A 5– Consulting experience in last three years**

*(enclose this schedule in envelope marked, “**Envelope 1** – General Information)*

- (i) If pre-qualification is done the bidders are required to include information subsequent to that submitted with the pre-qualification application.*
- (ii) For joint ventures, each joint venture partner shall furnish information separately.*
- (iii) List similar works first.*

<b>Year</b>	<b>Employer</b>	<b>Project Name</b>	<b>Project Duration (Months)</b>	<b>Amount (Project Value)</b>	<b>Scope of work</b>
		<b>Total</b>			

## Check List for Bidders

Bidders are advised to fill the following table:

ITEM	ITB Clause	YES (tick)	REFERENCE
<b>Form of Bid</b>			
Addressed to the <b>Employer</b> ?	18		
Completed?	18		
Signed?	18		
<b>Bid Security Declaration Form (if required)</b>			
Properly filled and signed	16		
<b>Bid Security (if required)</b>			
Addressed to the <b>Employer</b> ?	16		
Format as required?	16		
Issuing Agency as specified?	16		
Amount as requesting?	16		
Validity 28 days beyond the validity of Bid?	16		
<b>Qualification Information</b>			
All relevant information completed?	4		
Signed?	4		
<b>Addendum</b>			
Contents of the addendum (if any) taken in to account?	10		
<b>BID package</b>			
All the documents given in ITB Clause 12 enclosed in the original and copy?	12		
ITB Clause 19 followed before sealing the Bid Package?	19		

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# **VOLUME 2**

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**Section – VII (b)**

**FORM OF DESIGN & TECHNICAL PROPOSAL**

**FORM OF DESIGN/TECHNICAL PROPOSAL**

**NAME OF CONTRACT:** Design & Furnish of Fluid Mechanics and Thermodynamics Laboratory of Department of Engineering Technology, Faculty of Technological Studies

To: Vice-Chancellor,  
Uva Wellassa University of Sri Lanka,  
Badulla,  
.

We have examined the conditions of contract, Employer’s Requirements, Schedule and Addenda Nos.-.....for the execution of above-named works.

We accordingly offer to design, execute and complete the said Works and remedy any defects, fit for purpose in conformity with these Bidding Documents and enclosed proposal. We are hereby submitted our Bid, which includes this Design/Technical Proposal, General Information and a Financial Proposal sealed under a separate envelopes.

We understand that you are not bound to accept the lowest offer or any other bid you may receive.

.....  
Signature of the persons duly authorized to sign documents for and on behalf of .....

Address: .....  
.....  
.....

Date: .....



**Section – VIII (b)**

**SCHEDULES – Related to Design and Technical Proposal**

**Schedule B1 – Comments and Suggestions on Employer’s Requirements**

*(enclose this schedule in envelope marked “**Envelope 2** – Design and Technical Proposal”)*

Sheet 1 of .....

*Bidders may include observations made on Employer’s Requirements and any suggestions for consideration. (Use additional pages if necessary).*

**Schedule B2 – Contractor’s Proposal**

*(enclose in envelope marked “**Envelope 2** – Design and Technical Proposal”)*

Sheet 1 of .....

*This schedule should be complete considering all the requirements given in the Employer’s Requirements, including design criteria, specifications and technical data. (use additional pages if necessary)*

**Schedule B3 – Team Composition and Task Assignment**

*(enclose this schedule in envelope marked, “**Envelope 2** – Design and Technical Proposal”)*

**A. Design Staff**

Name	Position	Task

**B. Construction Management**

Name	Position	Task

**Schedule B4 – Curriculum Vitae of Key Staff**

*(enclose Curriculum Vitae in envelope marked, “**Envelope 2** – Design and Technical Proposal”)*

<b>Proposed Position:</b>			
<b>Name of Staff:</b>			
<b>Nationality:</b>			
<b>Profession:</b>			
<b>Membership in Professional Societies:</b>	<b>Society/ Institution</b>	<b>Membership Category</b>	<b>Date Obtained</b>
<b>Detailed Tasks Assigned:</b>			
<b>Key Qualifications:</b>	<i>Give an outline of staff member’s experience most pertinent to tasks or assignment. Describe degree of responsibility held by staff member on relevant previous assignment and give dates and locations. Use about half a page.</i>		
<b>Education:</b>	<b>Institute</b>	<b>Qualification</b>	<b>Date Obtained</b>

<b>Employment Record:</b>	<b>Employer/ Project Name</b>	<b>Position Held</b>	<b>Project Value (Rs. Mn)</b>	<b>Scope of Work</b>	<b>Period</b>
<b>Certification:</b>	I, the undersigned, certified that to the best of my knowledge and belief, the information is correct.				
Signature of staff member: ..... Date: .....					

<b>Schedule B7 – Work Program (Construction Related Activities)</b> (enclose in envelope marked, “ <b>Envelope 2</b> – Design and Technical Proposal”)												
	<i>[1<sup>st</sup>, 2<sup>nd</sup>, etc., are weeks from the Start date</i>											
<b>Construction Activity</b>	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>					26 <sup>th</sup>

**Note:- The bidder has to prepare this chards for the entire 26 weeks.**

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# **VOLUME 3**

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**Section – VII (c)**

**FORM OF FINANCIAL (PRICE) PROPOSAL**

**FORM OF FINANCIAL (PRICE) PROPOSAL**

**NAME OF CONTRACT:** Design & Refurnish of Elementary Laboratory of Department of Biosystems Technology, Faculty of Technological Studies, Uva Wellassa University

To: Vice-Chancellor,  
Uva Wellassa University of Sri Lanka,  
Badulla, .

We have examined the Conditions of Contract, Employer’s Requirements, Schedules and Addenda Nos. .... or the execution of the above-named Works. We accordingly offer to design, execute and complete the said Works and remedy any defects fit for the purpose, in conformity with the Bidding Documents and the enclosed Proposal, for the fix lump sum of Rupees ..... (Rs.....) or other such sums as may be determined in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Schedule herewith and are made part of this bid. We confirm that our bid includes this Price proposal, Design/Technical Proposal, and General Information sealed under a separate envelopes.

We accept your suggestions for the appointment of Adjudicator, as set out in Bidding Data.

We agree to abide by this bid until **91 days from the date of bid submission deadline**, and it shall remain binding upon us and may be accepted at any time before that date.

We confirm that, we (include all members of a joint venture and subcontractors) are not associated, directly or indirectly, with the consultant or any other entity in preparation of the design, specifications, and other documents for the contract.

If this offer is accepted, we will provide the specified Performance Security, commence the Works as soon as reasonably practicable after the Commencement Date, and complete the Works in accordance with the above-named documents within the Time for Completion. We will ensure that works will be done in conformity with the contract.

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

We understand that you are not bound to accept the lowest offer or any other bid you may receive.

.....

Signature of the persons duly authorized to sign documents for and on behalf of .....

.....

Address: .....

.....

.....

Date: .....

**Section – VIII(c)**

**SCHEDULES – Related to Financial (Price) Proposal**

**Schedule C1 - Price Schedule**

*(enclose all price schedule in envelope marked, "**Envelope 2** – Financial (Price) Proposal")*

**Activity 1 : Preliminaries**

<b>Item No:</b>	<b>Sub-activity description</b>	<b>Amount (Rs.)</b>
1.1	Allow lump sum for providing Advance Security	
1.2	Allow lump sum for providing Performance Guarantee	
<b>Item No:</b>	<b>Sub-activity description</b>	<b>Amount (Rs.)</b>
	<b>Any other Sub-activity (Bidder to include)</b>	
1.A1		
1.A2		
1.A3		
1.A4		
1.A5		
1.A6		
1.A7		
1.A8		
<b>Total for Activity 1 carried to summary</b>		

**Schedule C 1 - Price Schedule**

*(enclose all price schedule in envelope marked, "**Envelope 2** – Financial (Price)Proposal")*

**Activity 2 : Design**

<b>Item No:</b>	<b>Sub-activity description</b>	<b>Amount (Rs.)</b>
2.1	Design of the proposal	
2.2	Quality control, planning, monitoring, testing and remedial measures	
	<b>Any other Sub-activity (Bidder to include)</b>	
<b>Total for Activity 2 carried to summary</b>		

<b>Schedule C 1 - Price Schedule</b>		
<i>(enclose all price schedule in envelope marked, " <b>Envelope 2</b> – Financial Proposal")</i>		
<b>Activity 3 : Construction Work</b>		
<b>Item No:</b>	<b>Sub-activity description (with fully completion upto operational level)</b>	<b>Amount (Rs.)</b>
3.1	Furnishing of Elementary Laboratory as per the employer requirement under section vi “ Employer’s requirement”	
<b>Any other Sub-activity (Bidder to include)</b>		
<b>Total for Activity 3 carried to summary</b>		

**Note : Bidder can submit cost breakdown with reference to Item No 3.1**

### Schedule C4 – Price Schedule

*If any item relevant to design which is not printed in the document, the bidder shall enter that item under “any other sub activity- bidder to include” and shall price it.*

*All items and/or works described in “Employer’s Requirement” to be implemented by the successful bidder within the total bid price.*

*Enclose all price schedules in envelope marked, **Envelope 2 – Financial Proposal***

Sheet ..... of.....

#### Summary

Activity No:	Activity description	Amount
1	Preliminaries	
2	Design	
3	Construction	
	Any other activity (bidder to include)	
A		
B		
	<b>Sub Total</b>	
	<b>Discount</b>	
	<b>Amount carried to Form of Bid</b>	
	<b>Add VAT 08%</b>	
	<b>Total</b>	

**Signature of bidder**

**Seal**

**Date**