



University of Ruhuna  
Wellamadama  
Matara

22.07.2021

The Manager,  
.....

**Invitation for Bids (IFB)**

**Contract: Supply, Delivery, Installation, Commissioning and Testing of Computers & Office Equipment**

**IFB No - AHEAD/RA2/ELTA-ELSE/RUH/MGT&SCI/GOODS/2021/NS143**

The Chairman, Department Procurement Committee on behalf of the University of Ruhuna invites sealed bid from you for **Supply, Delivery, Installation, Commissioning and Testing of Computers & Office Equipment** indicated in the annexed bid document.

01. Bidding will be conducted through National Shopping method of procurement.
02. You may obtain further information if any from the **Deputy Director- Procurement (AHEAD Project)** Supplies Branch, University of Ruhuna, Wellamadama, Matara. (T.P 041- 2227027/ Fax No. 041 – 2227027)
03. Bids must be delivered by mail in sealed envelopes addressed to **Director/OTS, AHEAD Project-OTS Office, University of Ruhuna, Wellamadama, Matara** before **02.00 p.m. on August 05, 2021**. Late bids will be rejected.
04. This contract is subject to,
  - Providing of performance security of 10% of the total contract price in accordance with the format attached and issued with this in favor of the Vice Chancellor, University of Ruhuna.
  - Entering in to the formal agreement with the University of Ruhuna.

*Nihal Yapage*  
22/07/2021

.....  
Director/ OTS,  
University of Ruhuna,  
Wellamadama,  
Matara.

**Dr. Nihal Yapage**  
Director-Operations Technical Secretariat  
AHEAD Project  
University of Ruhuna  
Wellamadama, Matara



**UNIVERSITY OF RUHUNA**

**PROCUREMENT OF GOODS UNDER  
NATIONAL SHOPPING PROCEDURES**

**INVITATION FOR QUOTATIONS  
FOR**

**Supply, Delivery, Installation Commissioning and Testing of  
Computers and Office Equipment**

**IFB No: AHEAD/RA2/ELTA-ELSE/RUH/MGT&SCI/GOODS/2021/NS143**

**Dr. Nihal Yapage**  
Director-Operations Technical Secretariat  
AHEAD Project  
University of Ruhuna  
Wellamadana, Matale

## Section I. Instructions to Vendors (ITV)

<b>A: General</b>	
<b>1. Scope of Bid</b>	1.1 The Purchaser named in the Data Sheet invites you to submit a quotation for the supply of Goods as specified in Section III Schedule of Requirements.
<b>B: Contents of Documents</b>	
<b>2. Contents of Documents</b>	2.1 The documents consist of the Sections indicated below. <ul style="list-style-type: none"> <li>• Section I. Instructions to Vendors (ITV)</li> <li>• Section II. Data Sheet</li> <li>• Section III. Schedule of Requirements</li> <li>• Section IV. Technical Specifications &amp; Compliance with Specifications with price schedule</li> <li>• Section V. Quotation submission Form(s)</li> </ul>
<b>C: Preparation of Quotation</b>	
<b>3. Documents Comprising your Quotation</b>	3.1 The Quotation shall comprise the following: <ul style="list-style-type: none"> <li>(a) Quotation Submission Form and the Price Schedules;</li> <li>(b) Technical Specifications &amp; Compliance with Specifications</li> </ul>
<b>4. Quotation Submission Form and Price Schedules</b>	4.1 The vendor shall submit the Quotation Submission Form using the form furnished in Section V. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.  4.2 <b>Alternative offers shall not be considered. The vendors are advised not to quote different options for the same item but furnish the most competitive among the options available to the bidder.</b>
<b>5. Prices and Discounts</b>	5.1 Unless specifically stated in Data Sheet, all items must be priced separately in the Price Schedules.  5.2 The price to be quoted in the Quotation Submission Form shall be the total price of the Quotation, including any discounts offered.

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 AMMS Project  
 University of Ruhuna  
 Wellamadana, Sri Lanka

	<p>5.3 The applicable VAT shall be indicated separately.</p> <p>5.4 Prices quoted by the vendor shall be fixed during the vendor's performance of the Contract and not subject to variation on any account. A Quotation submitted with adjustable price shall be treated as nonresponsive and may be rejected.</p>
<b>6. Currency</b>	6.1 The vendors shall quote only in Sri Lanka Rupees.
<b>7. Documents to Establish the Conformity of the Goods</b>	<p>7.1 The vendor shall furnish as part of its quotation the documentary evidence that the Goods confirm to the technical specifications and standards specified in Section IV, "Technical Specifications &amp; Compliance with Specifications".</p> <p>7.2 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods, demonstrating substantial responsiveness of the Goods to the technical specifications, and if applicable, a statement of deviations and exceptions to the provisions of the Technical Specifications given.</p> <p>7.3 If stated in the Data Sheet the vendor shall submit a certificate from the manufacturer to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply these Goods in Sri Lanka.</p>
<b>8. Period of Validity of quotation</b>	8.1 Quotations shall remain valid for the period of <b>sixty (60)</b> days after the quotation submission deadline date.
<b>9. Format and Signing of Quotation</b>	9.1 The quotation shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the vendor.
<b>D: Submission and Opening of Quotation</b>	
<b>10. Submission of Quotation</b>	<p>10.1 Vendors may submit their quotations by Registered post in sealed envelopes addressed to the Purchaser and bear the specific identification of the quotation number.</p> <p>10.2 If the quotation is not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the quotation.</p>
<b>11. Deadline for Submission of Quotation</b>	11.1 Quotation must be received by the Purchaser at the address set out in Section II, "Data Sheet", and not later than the date and time as specified in the Data Sheet.

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 AMUAS Project  
 University of Peradeniya  
 Wellamadurna, Sri Lanka

<b>12. Late Quotations</b>	12.1 The Purchaser shall reject any quotation that arrives after the deadline for submission of quotations, in accordance with ITV Clause 11.1 above.
<b>13. Opening of Quotations</b>	13.1 The Purchaser shall conduct the opening of quotation in public at the address, date and time specified in the Data Sheet. 13.2 A representative of the bidders may be present and mark his attendance.
<b>E: Evaluation and Comparison of Quotations</b>	
<b>14. Clarifications</b>	14.1 To assist in the examination, evaluation and comparison of the quotations, the Purchaser may, at its discretion, ask any vendor for a clarification of his quotation. Any clarification submitted by a vendor in respect to his quotation which is not in response to a request by the Purchaser shall not be considered. 14.2 The Purchaser's request for clarification and the response shall be in writing.
<b>15. Responsiveness of Quotations</b>	15.1 The Purchaser will determine the responsiveness of the quotation to the documents based on the contents of the quotation received. 15.2 If a quotation is evaluated as not substantially responsive to the documents issued, it may be rejected by the Purchaser.
<b>16. Evaluation of quotations</b>	16.1 The Purchaser shall evaluate each quotation that has been determined, to be substantially responsive. 16.2 To evaluate a quotation, the Purchaser may consider the following: (a) the Price as quoted; (b) price adjustment for correction of arithmetical errors; (c) price adjustment due to discounts offered. 16.3 The Purchaser's evaluation of a quotation may require the consideration of other factors, in addition to the Price quoted if stated in Section II, Data Sheet. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods.

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 Airside Projects  
 University of Kelaniya  
 Wellamadana, Sri Lanka

<b>17. Purchaser's Right to Accept any Quotation, and to Reject any or all Quotations</b>	17.1 The Purchaser reserves the right to accept or reject any quotation, and to annul the process and reject all quotations at any time prior to acceptance, without thereby incurring any liability to bidders.
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<b>F: Award of Contract</b>	
<b>18. Acceptance of the Quotation</b>	18.1 The Purchaser will accept the quotation of the vendor whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the documents issued.
<b>19. Notification of acceptance</b>	19.1 Prior to the expiration of the period of validity of quotation, the Purchaser will notify the successful vendor, in writing, that his quotation has been accepted.
<b>20. Signing of Contract</b>	20.1 Within (14) days after notification, the Purchaser shall complete the Agreement, and in form the successful Bidder have to sign it. 20.2 Within fourteen (14) days of receipt of such information, the successful Bidder shall sign the Agreement.
<b>21. Performance Security.</b>	21.1 Within fourteen (14) days of the receipt of notification of award from the Purchaser, the successful Bidder is required furnish the Performance Security in accordance with the CC, using for that purpose the Performance Security Form included in Section VII contract forms, The Employer shall promptly notify the name of the winning Bidder to each unsuccessful Bidder and discharge the Bid Security of the unsuccessful bidders. 21.2 Failure of the successful Bidder to submit the above mentioned Performance Security or sign the contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security or execution of the Bid-Securing Declaration. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder, whose offer is substantially responsive and is determined by the purchaser to be qualified to perform the contract satisfactorily.

Dr. Nihal Yapag  
Director - Special Projects  
University of Ruhuna  
Wellamadana, Hambantota

## Section II: Data Sheet

ITV Clause Reference	
1.1	The Purchaser is: <b>Vice Chancellor</b> Address : University of Ruhuna, Wellamadama Matara.
5.1	If the bidder is allowed to quote for lesser number of items than the total number of items specified, indicate the details.
7.3	Manufacturer's Authorization is required.
11.1	Address for submission of quotations is <b>Director/ OTS, AHEAD Project, University of Ruhuna, Wellamadama, Matara.</b> Deadline for submission of quotations is at 2.00 P.M on August 05, 2021
13	The Quotations shall be opened at the following address: <b>AHEAD PROJECT, OTS-Office, University of Ruhuna, Wellamadama, Matara.</b>
16	Other factors that will be considered for evaluation are (List and describe the methodology):
<b>Additional Clause</b>	
17. Payment	Payment shall be made within eight weeks after receiving the invoice and other required documents to the Office for each item supplied.
19. Liquidated Damages	The supplier should deliver the items within the delivery period stipulated in the schedule of requirements. The supplier should make payment to the purchaser for <b>each week of delay in delivery, at the rate of 0.5% of the contract sum per each week of delay, up to a maximum of 10% of the contract sum.</b>
21. Performance Security	The supplier should forward performance security of 10% of the total contract price. This should be issued in favor the Vice Chancellor, university of Ruhuna, valid for a period of one year from date of acceptance of the order.(Format is Attached )

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Director-Operations  
AHEAD Project  
University of Ruhuna  
Wellamadama, Matara

## Section III: Schedule of Requirements

Note:

1. Bidders a) May quote whole item.
2. Evaluation will be based on: a) separately.

Item No.	Brief Description of the Goods	Specification and Requirements	Quantity	Delivery Period in Days from issue of Purchase Order	Bidder's offered Delivery Date	Place of Delivery
01	Integrated Instructor desk (Smart Lectern)	Annexure I	04	2 weeks		Faculty of Management, University of Ruhuna, Wellamadama, Matara.
02	Digital Screen (LED 72 inches)	Annexure II	02	2 weeks		
03	Desktop Computers i5	Annexure III	04	2 weeks		
04	Multimedia Projector	Annexure IV	04	2 weeks		
05	Projector Screen (Electronic 10*8")	Annexure V	04	2 weeks		
06	Laptop i5	Annexure VI	01	2 weeks		
07	55" Conference Room Monitor	Annexure VII	11	2 weeks		
08	Laser Printer	Annexure VIII	04	2 weeks		

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 Director-General Technical Services  
 Director General  
 University of Ruhuna  
 Wellamadama, Matara



## PRICE SCHEDULE –IV

**Contract: Supply, Delivery, Installation, Commissioning and Testing of Computers & Office Equipment  
IFB No - AHEAD/RA2/ELTA-ELSE/RUH/MGT&SCI/GOODS/2021/NS143**

Item No.	Description	Qty.	Unit Rate. (Without VAT) (Rs. & Cents)	VAT (Rs. & Cents)	Total Amount (With VAT) (Rs. & Cents)
01	Integrated Instructor desk (Smart Lectern)	04			
02	Digital Screen (LED 72 inches)	02			
03	Desktop Computers i5	04			
04	Multimedia Projector	04			
05	Projector Screen (Electronic 10*8")	04			
06	Laptop i5	01			
07	55' Conference Room Monitor	11			
08	Laser Printer	04			

We agree to supply and delivery the above goods in accordance with the technical specifications for a total contract price of Rupees..... (amount in figures) ( ..... amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the warrantee/guarantee specified shall apply to the offered goods.

**Dr. Nihal Yapage**  
 Technical Secretariat  
 Applied Physics  
 University of Ruhuna  
 Mahipalana, Mahawa

.....  
**Signature of the Bidder** ..... **Name of the Bidder** ..... **Date** .....

## Section V Quotation Submission Form

[The Vendor shall fill in this Form in accordance with the instructions indicated. No alterations to its format shall be permitted and no substitutions will be accepted.]

Date:

To:.....

[insert complete name of Purchaser]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the document issued;
- (b) We offer to supply in conformity with the documents issued and in accordance with the Delivery Schedules specified in the Schedule of Requirements, the following Goods [insert a brief description of the Goods];
- (c) The total price of our quotation including any discounts offered is: [insert the total quoted price in words and in figures];
- (d) Our quotation shall be valid for the period of time specified in ITV Sub-Clause 8.1, from the date fixed for the quotation submission deadline in accordance with ITV Sub-Clause 11.1, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) We understand that this quotation, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us.
- (f) We understand that you are not bound to accept the lowest evaluated quotation or any other quotation that you may receive.

Signed:.....

[insert signature of Person whose name and capacity are shown]

Name: .....

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

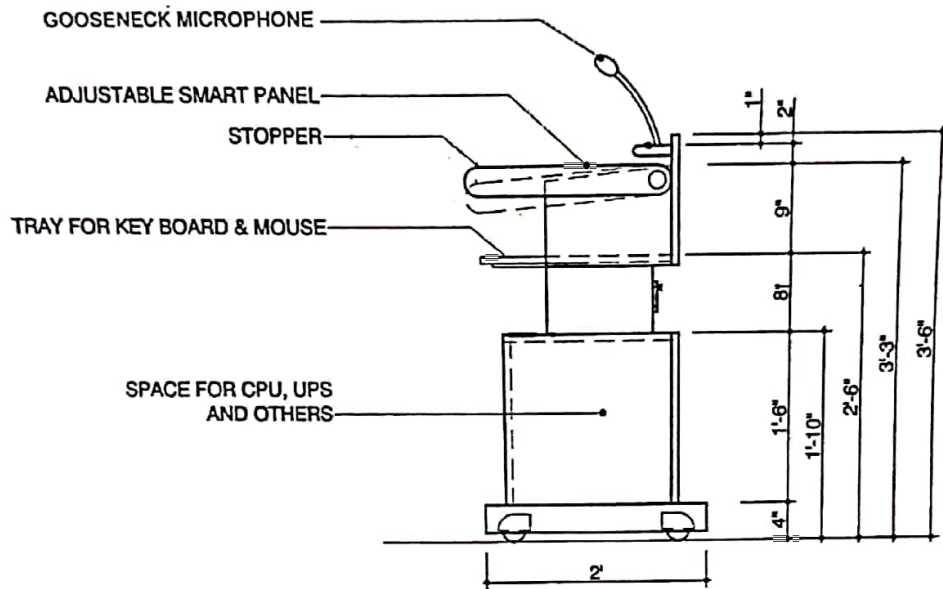
Dated:

Dr. Nihal Yapa  
Director Operations & Technical Services  
Applied Physics  
University of Peradeniya  
Wellamadama, Peradeniya

### 1. Specifications for Integrated Instructor Desk (Smart Lectern)

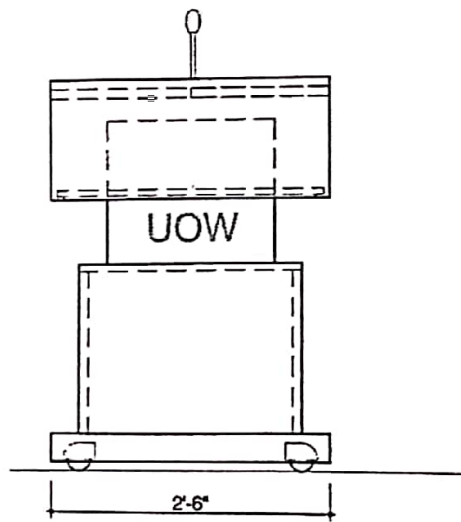
Specification	Requirements	Bidder's Offer	
		Yes/ No	Remarks
Material	Aluminum		
Goose neck microphone	18" Gooseneck Phathom Power Operated Microphone Should be available		
Sliding trays	Should be available two trays to place laptop, mouse and other devices.		
Input/output ports	Audio input, output ports should be available		
Power socket	4 NoS of 13 Amp Power Sockets		
Appearance	Should provide photograph		
Warranty Period	All-inclusive minimum 3 years Comprehensive Warranty		
Other Accessories	Please specify		
Operational environmental condition	Should function without any issue under general climate condition (Please specify )		

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 Director-Operations Technical Services  
 APJKTU Project  
 University of Ruhuna  
 Wellamadana, Matugama

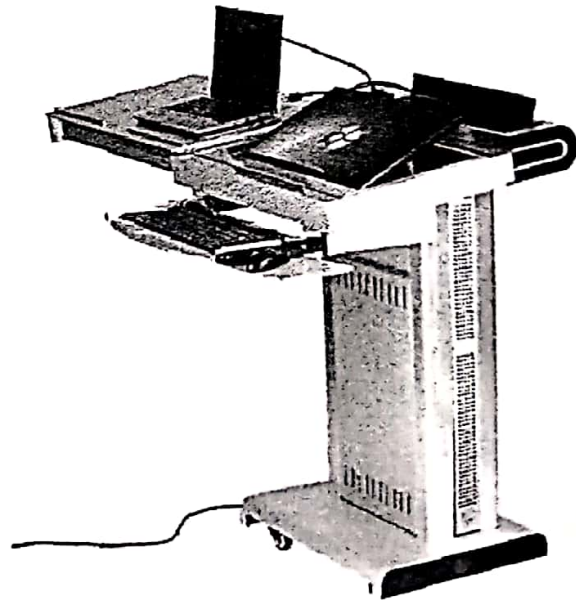


**SIDE ELEVATION**

MATERIALS TO BE USED :- ECO BOARD  
ALUMINIUM  
SS



**FRONT ELEVATION**



CONCEPTUAL IMAGERY

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Director - Operation & Technology  
AMBA Project  
University of Pune  
Wellamadurga, Mysore

## 02. Specifications for Digital Screen

Specification		Requirements	Bidder's Offer	
			Yes/No	Remarks
<b>General</b>	Brand	Please specify		
	Model	Please specify		
	Country of origin	Please specify		
	Country of manufacture	Please specify		
	Year of manufacture	Please specify		
<b>Panel</b>	Diagonal size	70 inches or more		
	Type	60Hz Direct LED		
	Resolution	1920 x 1080 or more		
	Brightness	300 cd/m <sup>2</sup> or more		
	Contrast Ratio	4000:1 Please specify		
	Color support	1.07 Billion		
	Aspect ratio	16:9		
<b>Sound</b>	Speaker	Built in speaker (10Wx2)		
<b>Connectivity</b>	Network	RJ45 – 1		
		Wi-Fi – should be available		
	Input	VGA – please specify		
		HDMI 3 or more		
		USB 2.0 – 1		
		USB 3.0 – 1		
		RS232 – please specify		
		Audio in - 1		
	Output	VGA – Please specify		
		HDMI – Should be available		
		Audio out - 1		
		Touch out – please specify		
	Internal	Sensor – please specify		
<b>Touch</b>	Touch technology	Infrared		
	Touch resolution	Please specify		

	Touch surface	Anti-Glare glass		
	Touch surface material	04mm Tempered glass (H7 standard explosive proof)		
	Touch mode	Multi touch		
	Touch objects	Human finger and opaque pen		
	Response time	Please specify		
<b>Power</b>	Type	Internal		
	Power supply	AC 100 ~ 24 V 50/60 Hz		
	Power consumption	Please specify		
<b>Mechanical specification</b>	Dimension (mm)	Please specify		
	Weight	Please specify		
	Color	Black		
	Stand type	Stand and wall mount		
	Power cable length	1.5M or above		
	LED lifetime	60,000 or above		
	Operating temperature	0C-40C		
	Humidity	10~80%		
<b>Hardware</b>	Processor	Intel core i5 or above Please specify		
	RAM	4GB DDR3 or above		
	Hard Disk	128GB or above		
<b>Software</b>	Operating system	Windows 10 Home/professional Please specify		
	Application software (Office application, interactive teaching application, Antivirus applications)	Please specify		
<b>Accessories</b>	Remote control	Should be available		
	Pointer	Please specify		
	Pens	Please specify		
	USB cable	Please specify		
	HDMI cables	Please specify		
	Wall mount bracket	Please specify		
	User manual	Should be available		

	Pen holder	Please specify		
	Others	Please specify		
Authorization	Manufacturer's authorization letter should be provided			
	Supplier should have an authorized service support center			
Energy Star	Should be Energy Star ® qualified			
Warranty Period	All-inclusive minimum 3 years Comprehensive Warranty			
Number of Free Services	Please specify number of Free Services to be carried out per year during the period of warranty			
Training sessions	Onsite operational training should be provided			
Condition of service agreement and fee after warranty Period	Please specify			
Availability of spare parts for minimum five years	Please specify			
Operational environmental condition	Should function without any issue under general climate condition (Please specify)			
<b>Warranty Agreement</b>	A suitable replacement should be provided if repairing time for any breakdown period exceed 72 hours during warranty. If above condition is not satisfied a penalty of Rs. 500.00 per day per unit will be applied and deduct from your retention for the breakdown period. Please specify any deviation if applicable			

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Director-Operational Technology  
ANMIG Project  
University of Ruhuna  
Wellamadana, K/10/2

**03. Specifications for Desktop Computers i5**

Specifications	Requirements	Bidder's Offer	
		Yes/ No	Remarks
Brand	(Branded)		
Model	(Branded)		
Country of origin and Country of manufacture/ assembly	(Branded)		
Processor	Intel® Core i5-9400 9 <sup>th</sup> Generation Processor 2.9 GHz/ AMD Ryzen™ 5 PRO 3400G Processor 4.20GHz or Better		
Clock Speed	2.9GHz Actual Clock speed or Higher		
Cache	9 MB L2 cache or Higher		
Form Factor	Business Desktop		
Chassis	Mini/ Micro tower business desktop casing with locking facility (mini padlock with 3 keys should be supplied)		
Chipset	Intel Express B/ H Business Chipset/ AMD B Chipset or Higher (Specify)		
Mother Board	Should be the same quoted brand (Serial number of the CPU should show in BIOS)		
Memory	8 GB DDR4 2666MHz or higher		
Maximum memory	Upgradeable to Maximum of 16 GB RAM		
Memory Dims	2 Dims		
Hard Disk	1 TB Serial ATA Minimum		
Keyboard	128 Key Standard Keyboard to be as same brand in English		
Mouse	Two Buttons with scroll wheel optical Mouse with mouse pad		
Optical Drive	SATA DVD drive (+/- RW)		



Expansion slots	Minimum 2 Expansion slots including 1 Nos PCI x 16 (Specify)		
Video Controller	Intel UHD Graphics 630/ Radeon™ Vega 11 Graphics		
Network Interface	Gigabit Ethernet network Interface card (10/100/1000) Internal Wi-Fi card – USB Dongle is not accepted		
I/O Ports	Minimum 8 USB Ports at least 2 Nos 3.1 USB, Including Minimum 1 HDMI Port 1, VGA Port		
Power Supply	250W PFC, auto-sensing, 80 PLUS# Platinum or higher power supply		
Operating system	Windows 10 Pro/ Linux/ Ubuntu 18.04+		
Application Software	Sinhala and Tamil Unicode Software, Commercial Anti-virus with license for 3 years		
Product certifications of the quoted Model	Energy Star or any other equal certificate to Energy Star, issued by authorized body who has the authority to do so. (Documentary evidence must be provided) Valid ISO 9001: 2015, and ISO 14001:2015 Offered Model must possess FCC or CE or Equal		
Display	19.5" wide screen Color LED Monitor Supporting resolutions WXGA wide screen or better, Should be the same brand of the desktop.		
Manufacture Experience	Manufacturer should have minimum of 3 years' experience in manufacturing of the same brand. (Proof document should be attached)		
Manufacturer Authorization Certificate	Manufacturer Authorization Certificate should be provided (Originals should be provided on request)		

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Director-Operations Technical Services  
A/AS&S Project  
University of Peradeniya  
Wellamadulla, Sri Lanka

Warranty	Comprehensive on-site manufacturer authorized warranty for 36 months (Labor and Parts) excluding Consumes. Bidder or its parent company or its subsidiary should have Island wide owned branch network. Documentary evidence to be provided of the following under bidders' name. (a) Address, Contact Details and Date of Commencement of each branch/regional office (Should have completed minimum of 5 years from the Date of Commencement of each branch/regional)		
Warranty Information	Should be fixe a sticker with -Supplier name -Contact Numbers -Date of Commissioning of Hardware -Warranty period in all computers		
Brochure	Supplier should provide brochure of make/model quoted as per above specification		

Dr. Nihal Yapage  
 Director - Operations Technical Services  
 ARISS Project  
 University of Ruhuna  
 Wellamadana, Mahipala

### 04. Specification for Multimedia Projector

Specifications	Requirements	Bidders Compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of Origin	Please specify		
Native Resolution	1280 x 800		
Maximum Resolution	1920 x 1200		
Display Technology	3LCD		
Brightness	3000 ANSL Lumens or more		
Contrast Ratio	4000:1 or more		
Input Sources	VGA		
	S-Video, Composite Video		
	USB		
	Audio		
	HDMI		
	Network (Rj45 port)		
Output Sources	VGA, Audio Out		
Aspect Ratio	16:10 with support for 4:3, 16:9		
Video Compatibility	PAL(SD,HD)		
Number of Colors	1.7billion, True Colors		
Keystone Correction	+/- 30° (Vertical)		
Throw Ratio	0.35:1 (short throw)		
Control	IR Remote		
Projection Method	Front, Rear, Ceiling Front, Ceiling Rear		
Audio	Yes		
Lamp	230W or minimum		

Power Supply	100 – 240 VAC, 50Hz		
Lamp Life	3500 hours minimum – Please specify clearly		
Mounting	Branded Ceiling -Mounting bracket		
Projector Warranty	Minimum 3 year comprehensive warranty required		
Lamp Warranty	Minimum one year, please specify		
Replacement cost of lamp	Please specify the cost		
Installation	Installation is required. Please specify the free installation length included in the quoted solution. Please specify per meter cost for additional length if needed when installing.		
Condition of service agreement and fee after warranty Period	Please specify		
Availability of spare parts for minimum five years	Please specify		
Operational environmental condition	Should function without any issue under general climate condition (Please specify)		

Dr. Nihal Yapage  
 Director-Operational Technical Services  
 Annual Project  
 University of Ruhuna  
 Wellamadana, Malwana

**05. Specification for Projector Screen**

Description	Minimum Requirements	Bidders compliance	
		Yes/No	If "No" indicate your offer
Make	Please specify		
Model	Please specify		
Country of manufacture	Please specify		
Dimensions	H8'XW10'		
Projection Surface	Matte white		
Supported resolution	1080P		
Mount Type	Wall and Ceiling		
Top casing colour	White		
Remote controller	RF/IR remote controller		
Standard bracket for wall mounting	Should be provided		
Motor	Synchronous or tubular		
Warranty	Three years Comprehensive		
Operational environmental condition	Should function without any issue under general climate condition (Please specify)		

Dr. Nihal Yapagi  
 Director-Operational Technology Unit  
 Applied Project  
 University of Ruhuna  
 Wellamadana, Welisara

**06. Specifications for Laptop Computers i5**

Specifications	Requirements	Bidders compliance	
		Yes/No	If "No" indicate your offer
Make & Model	(Branded)		
Country of manufacture	(Branded)		
Country of origin	(Branded)		
Form Factor	Business Laptop Computer (Manufacturer Confirmation must be attached)		
Chipset	Intel Integrated Chipset		
Processor	Intel® Core™ i5-10210U 1.6GHz processor (6 MB L3 cache) up to 4.2GHz / AMD Ryzen™ 5 4500U Processor 2.30GHz up to 4.0GHz (11MB L2/L3 Cache)		
Memory RAM	8 GB of single channel, DDR4 system memory, Upgradable to 16 GB or Higher capacity		
Maximum RAM speed & type	2666 MHz, DDR4 or higher		
Hard Disk	512GB SSD or Above		
Graphics	Intel UHD Graphics/ AMD Radeon™ Graphics		
Keyboard	(Specify)		
Touch Pad	Multi-gesture touchpad, supporting two-finger scroll		
Audio, Audio Integrated speakers, Microphone	Integrated high definition audio, Integrated internal speakers, Built-in microphone		
Communications, Modem Ethernet description, wireless Bluetooth	WLAN: 802.11ac, WPAN: Bluetooth 4.0		
Inbuilt Camera	720p HD camera		
Expansion options PC card I/O ports	SDTM Card reader, Microphone / Earphone-in jack, USB 2.0 port, Two USB 3.0 ports, HDMI® port, DC-in jack for AC adapter		
Display Type	14"/ 15.6" TFT LCD HD Resolution		

Operating system	Windows 10 Pro/ Linux/ Ubuntu 18.04+		
Application Software	Sinhala and Tamil Unicode Software, Commercial Anti-virus with license for 3 years		
Battery	Minimum 8 Hours battery life (Specify Type / mAh / hours)		
Security	Kensington lock slot		
Accessories Carrying case	Should be same brand		
Product certifications of the quoted Model	Energy Star or any other equal certificate to Energy Star, issued by authorized body who has the authority to do so, Documentary evidence must be provided. Valid ISO 9001: 2015, and ISO 14001:2015		
Manufacture Experience	Manufacturer should have minimum of 3 years' experience in manufacturing of the same brand. (Proof document should be attached)		
Manufacturer Authorization Certificate	Manufacturer Authorization Certificate should be provided (Originals should be provided on request)		
Warranty	Comprehensive on-site manufacturer authorized warranty for 36 months (Labor and Parts) Excluding Consumes. Bidder or its parent company or its subsidiary should have Island wide owned branch network. Documentary evidence to be provided of the following under bidders' name. (a) Address, Contact Details and Date of Commencement of each branch/regional office (Should have completed minimum of 5 years from the Date of Commencement of each branch/regional)		
Warranty Information	A sticker with -Supplier name -Contact Numbers -Date of Commissioning of Hardware -Warranty period in all Laptops		
Brochure	Supplier should provide original brochure of make/model quoted as per above specification		

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**07. Specification for Conference Room Monitors**

Specification	Requirements	Bidder's Offer	
		Yes/No	Remarks
Make	Please Specify		
Model	Please Specify		
Country of Origin	Please Specify		
Country of manufacture	Please Specify		
Year of manufacture	Please Specify		
Product Type	LED-backlit LCD flat panel display		
Diagonal Class	55 Inches or more		
Display Format	4K UHD (2160p)		
Resolution	3840 x 2160		
Typical Response time	8ms Typical (G to G)		
Aspect Ratio	16:9		
Panel Technology, Surface	Vertical Alignment		
Backlights	LED light bar system		
Luminance (Brightness)	Up to 350 cd/m <sup>2</sup> (typical)		
Viewing Angle (Vertical/Horizontal)	178°/178° or more		
Color Support	Color Gamut: CIE1976 (85 %) / CIE1931 (72 %)		
Number of Colors	16.7 Million or more		
Contrast Ratio (Typical)	Dynamic Contrast Ratio (DCR) 3000 to 1 (typical)		
Speakers	Integrated speakers (10W x 2)		
Connectivity	HDMI x 2		
	DP – Please specify		



	VGA – Please specify		
	USB 2.0 Ports – please specify		
	USB 3.0 x 3 including charging - please specify		
	RS232 port – Please specify		
	Audio Line in port - Please specify		
	Audio Line out port- Please specify		
AC input voltage	100 VAC to 240 VAC / 50 Hz or 60 Hz +/- 3 Hz / 2.5 A(Max)		
Energy Star	Should be Energy Star ® qualified		
Warranty Period	All-inclusive minimum 3 years Comprehensive Warranty		
Installation & Cabling	Required The output of the Smartboard should display in this screen placed in 35ft distance		
Cables	Please specify per meter cost for HDMI data cable		
Mounting wall brackets	Should be provided		
Condition of service agreement and fee after warranty Period	Please specify		
Availability of spare parts for minimum five years	Please specify		
Operational environmental condition	Should function without any issue under general climate condition (Please specify)		

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**08. Specifications for Laser Printer**

Specifications	Requirements	Bidder's Compliance	
		Yes/ No	If 'No', indicate your offer
Print Technology	Laser		
Print Speed	35 ppm		
Duplex (2-sided) Printing:	Automatic Full Duplex		
Print resolution	1200 x 1200 dpi		
First Printout Time (FPOT)	< 7 seconds		
Paper Size	A4 / B5 / A5 / Letter		
Standard Interfaces (Wired)	USB 2.0/ 3.0 High Speed; 10 Base-T / 100 Base-TX (RJ-45)		
RAM	128 MB		
Processor	400 MHz or Higher		
Compatible Operating System	Windows 7/8.1/10		
Power Requirements	220-240 V , 50/60 Hz		
Monthly Duty Cycle	50,000 pages (A4 page)		
Warranty	Two Years or more Comprehensive		

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