



KERALA AGRICULTURAL UNIVERSITY  
Centre for E Governance  
KAU HQRS Vellanikkara,  
Mannuthy Thrissur - 680 656.

NO CeG/0005/19(012-1)

Date: 02/03/2020

**TENDER NOTICE**

*Ref:-U O No GA /H1/20986/19 dt 10/12/2019*

Sealed competitive tenders are invited for the supply of Full-HD 4 Party Video Conferencing System & Accessories - given in the table below. The quantity required has been given against their name in the table.

SLNo	Item	Quantity
1	Full-HD Video Conferencing System with Camera, Digital Microphone & HDMI cables	1
2	Professional Display	1
3	Floor Mount Trolley Stand for mounting Display & Camera	1

Specification of items in detail has been given below in the Annexure 1 in this notice  
Terms and Conditions given below in Annexure 2 in this notice

Tender forms can be down loaded from KAU website ([www.kau.in/tenders](http://www.kau.in/tenders)).

All terms and conditions prescribed for Government tenders as amended from time to time are applicable in this case also along with the special conditions mentioned in Annexure 2. The under signed has the right to accept or reject any or all tenders without assigning any reason thereof.

**Sd/  
Systems Manager**

## ANNAXTURE 1

### SPECIFICATIONS OF ITEMS IN TENDER NOTICE No Specifications for equipment

SLNO	Item	Specifications	Quantity																										
1	Full-HD Video Conferencing System with Camera, Digital Microphone & HDMI cables	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; width: 20%;">1. Video Standards</td> <td>Should support H.261, H.263, H263+, H.264 High Profile, H.264 Baseline Profile</td> </tr> <tr> <td style="text-align: center;">2. Multi-Point Feature</td> <td>Should have 4-way (3+1) SIP/H.323 in 1080p/60fps Multipoint video conference feature enabled from day one. Any additional one-time license cost for the same if any must be included in the quoted amount.</td> </tr> <tr> <td style="text-align: center;">3. Video Features</td> <td>Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and Content from PC can be seen simultaneously.</td> </tr> <tr> <td style="text-align: center;">4. Video Output</td> <td>Dual Monitor Support (Should have at least 2 nos. of HDMI output to connect Full High Definition display devices for both Video and Content) and both should be enabled from day one.</td> </tr> <tr> <td style="text-align: center;">5. Video Input</td> <td>Should support at least 2 HD video Input to connect full HD cameras and should have additional VGA/HDMI port to connect PC/ Laptop at display resolutions up to 1080p</td> </tr> <tr> <td style="text-align: center;">6. Audio</td> <td>G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD Stereo or equivalent standard must be supported with Noise Reduction, Automatic Gain control, Echo Canceller</td> </tr> <tr> <td style="text-align: center;">7. Audio Inputs</td> <td>Should support 4 Microphone inputs from day one. Bidder should supply 1 table top digital microphone with pick-up of the microphones should be at least 10 feet from the microphone. There should be provision to attach additional microphones</td> </tr> <tr> <td style="text-align: center;">8. Recording</td> <td>Should have support for USB recording for both audio and video</td> </tr> <tr> <td style="text-align: center;">9. Network Interfaces</td> <td>1 LAN /Ethernet- 100/10000 BASE-T Full Duplex</td> </tr> <tr> <td style="text-align: center;">10. Encryption of video call</td> <td>Call should be encrypted end-to-end on IP Should support Standards-based: SRTP (AES 128 bit), H.235 (AES 128 bit)</td> </tr> <tr> <td style="text-align: center;">11. PTZ Camera</td> <td>1 (Nos) PTZ camera with 12x optical zoom and 10X Digital zoom camera with 1920x1080p 60 frames per second should be supplied by bidder. With Pan range: +/-130 degrees, Tilt range: +/- 90 to 25 degrees, with remote control</td> </tr> <tr> <td style="text-align: center;">12. Warranty</td> <td>Minimum 3(Three) years warranty should be provided for the entire unit.</td> </tr> <tr> <td style="text-align: center;">13. Cables</td> <td>HDMI Cable V.2.0 (2 Nos) for connections to one Video output and one Camera should be provided with at least 2 Meter Length should</td> </tr> </table>	1. Video Standards	Should support H.261, H.263, H263+, H.264 High Profile, H.264 Baseline Profile	2. Multi-Point Feature	Should have 4-way (3+1) SIP/H.323 in 1080p/60fps Multipoint video conference feature enabled from day one. Any additional one-time license cost for the same if any must be included in the quoted amount.	3. Video Features	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and Content from PC can be seen simultaneously.	4. 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			be supplied	
2	Professional Display	14. Size	65-inch / 16:9	1
		1. Panel Type	IPS Panel	
		2. Backlight Type	Direct LED	
		3. Resolution	3840 x 2160 pixels or higher	
		4. Brightness	350 cd/m <sup>2</sup> or better	
		5. Viewing Angle	178 <sup>0</sup> / 178 <sup>0</sup>	
		6. HDMI In	HDMI 2.0 x 2 (4K@60Hz)	
		7. USB	USB 2.0 x 2	
		8. AV In	Required	
		9. LAN (RJ-45)	Required	
		10. Auto Source Detect	Required	
		11. Auto Wake up on Input detect	Required	
		12. USB Media Player	Required	
		13. Built In Speaker	20 W (10W + 10W)	
		14. Orientation	Landscape / Portrait	
15. Warranty	Three Years Onsite			
3	Floor Mount Trolley Stand for Display & Camera	1. Max. Load	50 Kg or higher	1
		2. VC Camera Mount	Required	
		3. Display Sizes to hold	40" to 70" or higher	
		4. Material	Steel / Aluminum	
		5. Cable management	Required	
		6. Adjustable tray to carry VC equipment	Required	

**Sd/  
Systems Manager**

## ANNAXTURE 2

### Terms and conditions:

- 1 The firms or companies quoting the price should have service support or centers based in Kerala and supporting document for the same should be submitted.
- 2 The firms or companies quoting the price should submit the brochure for the model from the manufacturer highlighting the specification mentioning serial no specification of each items in Annx.1.
- 3 The price quoted should be inclusive of all taxes, (reduced GST rate 5% for Research Establishments) costs for clearance, transportations, loading and unloading etc.
- 4 0.2% of the cost of tender rounded to the nearest multiple of 100, subject to a minimum of 400/- and maximum 1500/- + GST as applicable may be drawn by DD in favour of “Systems Manager, CeG, KAU, Vellanikkara, KAU P.O, Thrissur - 680 656” payable at State Bank of India, KAU branch, Vellanikkara, Thrissur should be enclosed along with Tender.
- 5 EMD @ 1% of the quoted amount should be enclosed as separate DD drawn at the same address along with an agreement executed in Kerala stamp paper worth Rs100/-should be enclosed with the tender. EMD exempted establishments should submit supporting document for the same along with the tender.
- 6 Sealed tenders should be submitted to “Systems Manager, CeG KAU, Vellanikkara, KAU P.O, Thrissur - 680 656 “, super scribing the envelop with notification no, date and opening date and time.
- 7 Sealed Tender should reach this office on or before 11.00 pm on 12/03/2020 (Thursday) and will be opened at 2.30 pm on the same day in the presence of tenderers or their authorized representatives. The tenders received after the stipulated date and time will not be accepted in any circumstances.
- 8 Every tender must include all items and quantities specified in Annx.1 and partial tenders will be rejected.
- 9 All items should be carrying at manufacturer warranty mentioned in the technical specification and Supporting documents should be submitted.
- 10 Items should be delivered to “Systems Manager, CeG, KAU, Vellanikkara, KAU P.O, Thrissur - 680 656.
- 11 On receipt of supply order from this office, the tenderer should execute another agreement in Kerala Stamp Paper worth Rs.100/- (Rupees one hundred only) and furnish a security deposit of 5% of the cost of the equipment quoted in the form of term deposit/ bank guarantee / demand draft drawn in favour of “Systems Manager CeG KAU, Vellanikkara,

KAU P.O, Thrissur - 680 656 payable at the State Bank of India, Vellanikkara, Thrissur, KAU branch. The format of the agreement can be downloaded from the website [www.kau.in/tenders](http://www.kau.in/tenders)

- 12 Rates quoted should be valid for a minimum period of 90 days from the date of opening the tender.
- 13 Delivery: Within two weeks from the date of receipt of purchase order. The equipment should be delivered to “Systems Manager,CeG, KAU, Vellanikkara, KAU P.O, Thrissur - 680 656 at your own expenses and any packing, forwarding, freight, loading/unloading/handling or installation charges will be met by the firm.

**Sd/  
Systems Manager**