

KERALA AGRICULTURAL UNIVERSITY  
Kelappaji College of Agricultural Engineering & Technology, Tavanur

No. B3-7491/16

Dtd. 20-02-17

TENDER NOTICE

Sealed & competitive tenders are invited from Original equipment manufacturers or authorized dealers of international brand. The dealers must have good standing for at least 10 years in VC systems in the market and should be able to install, commission and maintain the systems in time bounded manner with wide service support in Kerala. All the equipment should cover at least **Three Years** Warranty

S l . N o	Item	Specifications	Cost of tender form Rs.	Vat	EMD	Remarks
1.	Vedio Conference System	End –to –end Video conferencing system (1+1 party) (Codec, Camera, Mic) with minimum 4x /12x Optical/digital PTZ camera of 1080pixels/60 frames, boundary microphone with coverage of minimum 2 meters, multiple monitor support, USB support, remote control -1No (detailed specification in the Annexure I)	700/-	5%	2.5% of total cost	
2.		60 inch LED Full HDMI Display TV with input port HDMIx2, VGAx1, inbuilt media player, Internet facility, Interface with Computer, Audio in-Audio out, with 20W speakers, 2xUSB support, Wall mount -1No				
3.		Wireless Mic With Receiver - 1No				

Annexure I

Detailed Specifications of SI No 1

Description	Specification Parameter
Package	Full HD 1080p camera, codec, Microphone Array, cables, and remote control
Video Standards and Resolutions	It should support H.323, SIP standards for communications.
	It should support H.261, H.263, H.264 AVC/SVC, H.264 High Profile/H.265
	It should support 1080p 60 fps, 1080p 30 fps, 720p 60 fps and 720p 30fps
Content Standards and Resolutions	It should support content sharing using standard based H.239 and BFCP over SIP. It should also support audio from PC used for

	content sharing.
	It should support content resolution at HD 1080p @ 30fps
	It should transmit both people and content simultaneously to the far end location at 1080p @30 fps
Audio Standards and Features	It should support G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better
	It should support 20kHz bandwidth with crystal clear audio and stereo sound.
	Automatic Gain Control and Automatic Noise Suppression
	Keyboard noise reduction and instant adaptation echo cancellation
Video and Audio Inputs	1 x HD input for connecting main HD camera
	1 x HDMI/equivalent input for connecting PC/Laptop to share HD content
	1 x Microphone Input (Support for minimum 2 mics)
	1 x 3.5mm stereo line-in
Video and Audio Outputs	1 x HDMI output for connecting main monitor End point should support VGA bypass feature so, that presentation can be shared on wifi, without connecting physical VGA cable.
Other Interfaces	1 x 3.5 mm stereo line-out
	1 x 10/100/1000 LAN port
	1 x RS-232 mini-DIN 8-pin
Camera	It should support 1080p60fps with 4x optical zoom and 65° field of view.
	It should support PAN Range of +/-90°, and Tilt of +/-15°
	The solution should be scalable to incorporate an active speaker detection solution in the same codec from the same OEM, in the future.
Network Features	H.323 and SIP bandwidth up to 100 Mbps;
	IPv4 and IPv6 support
Security	Media Encryption (H.323, SIP): AES-128, AES-256
	Authenticated access to admin menus, web interface and telnet API
	Local account password policy configuration
Other Standards	H.224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460
	It should support native Lync server integrations
	Auto sensing power supply
	The solution should be scalable to incorporate an active speaker detection solution in the same codec from the same OEM, in the future.
Warranty	3 year

### Conditions for participating in Tender

1. The tender form can be downloaded from the following web link in the internet <http://www.kau.edu/tenders>. A Demand Draft towards the cost of tender form as detailed above may be drawn in favour of the Dean (Ag. Engg.), KCAET, Tavanur payable at SBT, Kuttippuram should be enclosed along with Tender submitted.
2. EMD at 2.5% of the cost of equipment offered should be remitted by a separate DD drawn as detailed above.
3. An Agreement in Kerala stamp paper worth **Rs.100/-** should also be enclosed. (form of agreement can be downloaded from the website <http://www.kau.edu/tenders> under the related document section).
4. The sealed cover containing the tender documents should be super scribed as "Tender for Vedio Conference System" of this College and send to the Dean, KCAET, Tavanur – Pin 679573, Malappuram Dt, Kerala state.
5. Tenders received late or incomplete in any respect will be summarily rejected, without any notice and the decision of the undersigned on such matter will be final.
6. Successful tenderers will have to execute an agreement and remit security deposit @5% of the value of the articles ordered less the amount of EMD, drawn as DD/fixed Deposit.
7. The brand, make, model and detailed specifications and warranty terms are to be incorporated.
8. The items are to be supplied and installed at the KCAET, Tavanur and their working has to be demonstrated satisfactorily.
9. Installation Charges may be quoted separately.
10. Supplier should give the details of the nearest service center and response time.
11. Details of warranty, after sales service offered on expiry of normal warranty period available should be mentioned.
12. The undersigned reserves the authority to accept or reject any or all the tenders without assigning any reason thereof.
13. The decision of the undersigned in finalizing the tender shall be final and binding.
14. The client list may be attached in support of goodwill of the company.
15. Leaflets/brochures/catalogue of the equipments describing its features, application/specification etc. should be provided along with the tender.
16. Tenders will be received up to **2.30 pm on 4-3-2017**
17. Tenders will be opened at **3.00 pm on 4-3-2017** in the presence of the tenderers present at that time.
18. Supply should be effected on or before **18-3-2017**

Sd/-  
Dean (Ag.Engg.)i/c