

Department of Computer Science and Engineering
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
Chennai – 600 036.

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Announcement No: CS /VC studios/ 001 dated: 04-12-2017

Quotations are invited from Original Equipment Manufacturers or their authorized Dealers with Service support for Chennai region (Dealers should attach authorized dealership certificate from the OEM Manufacturers), for the following equipment as per specifications mentioned below.

The pre-qualifying condition is that the vendor should have previous experience of having sold and installed atleast 5 Nos of identical or higher version systems to Premier Educational Institutions / well known IT companies / MNCs / reputed broadcasting companies etc., in the past 1 year with evidence, to be attached in the technical bid.

Please note that the 2 bid system given below has to be followed.

- a) Two quotes (bids) namely technical bid and commercial bid have to be given in separately sealed envelopes with clear marking on the envelope.
- b) The technical bid should not contain any commercial terms failing which the bidder will be disqualified. All technical details including specifications, prequalification condition indicated above, must be clearly given in the technical bid. Type of warranty without indication of commercial terms should also be indicated in the technical bid.
- c) The commercial bid should contain all commercial terms including, delivery of equipment at Computer Science and Engineering office, Installation and those related to warranty and other costs.

Quotes (two bid format separately sealed and also put into a single envelope and sealed) should reach the office of,

"The Head ,
Department of Computer Science and Engineering
Indian Institute of Technology Madras,
CHENNAI – 600 036",

Last date for receiving of the tenders at the Department of Computer Science & Engineering office is 5.00pm on 27th December 2017.

Equipment Specifications:-

1. Video Conferencing System:- 1Nos – Following are the specifications.

S.No	Description	Specifications
1	Video conferencing system Package	Full HD1080p camera,codec with necessary cables&connectors,wall mount kit, Remote control, adjustable ceiling mount kit,Additional microphones.
2	Video Standards and Resolutions	It should support H.323,SIP standardsfor communications. It should support H.261, H.263, H.263+, H.264 It should support,1080p at 30fps,720p at 60fpsand 720p at 30fps.
3	Content Standards and Resolutions	It should support content sharing using standard based H.239 and BFCP over SIP It should support content resolution at HD1080p@30fps It should transmit both people and content simultaneously to the far end location at1080p@30fps
4	Audio Standards and Features	It should support G.711, G.728, G.729, G.722, G.722.1 or better It should support 15kHz bandwidth with crystal clear audio and stereo sound. Automatic Gain Control and Automatic Noise Reduction
5	Video and Audio Inputs	3xHD input for connecting main and additional HD cameras. 1*DVI/HDMI input for connecting PC/Laptop/HD device to share HD content Microphone Input 1x3.5mm stereo line-in
6	Video and Audio Outputs	3xHDMI/DVI output for connecting main monitor, recorders etc., 1x3.5mm stereo line-out
7	Other Interfaces	1x 10/100 LAN port 1xRS-232 mini-DIN8-pin
8	Camera	It should support 1080p at 60fpswith minimum 10x optical zoom and min 70° field of view. ½"CMOS, Auto focus, Auto-Iris, minimum 50 lux, with IR Detectors It should support PANRange of minimum +/-85°,and Tilt of +/-30°
9	Network Features	H.323 and SIP bandwidth support min 6Mbps IPv4 and IPv6 support from day one Auto Gatekeeper Discovery IP Precedence
10	Security	Media Encryption (H.323,SIP): AES-128,AES-256 Authenticated access to admin menus, web interface and TelnetAPI Local account password policy configuration H224/H.281, H.323AnnexQ, H.225, H.245, H.241, H.239, H.460 It should support native Lync server integrations Auto sensing power 50/60Hz
11	MultiConferencing	• From day one the codec should support optional feature of multiconferencing capability to connect

		minimum - 1+5 video sites.
		<ul style="list-style-type: none"> • Dial In and Dialout Mode in IP networks should be supported
		<ul style="list-style-type: none"> • Capability to mix IP Dial In & Dialout participants in the same call.
		<ul style="list-style-type: none"> • The multi-point call can be encrypted (AES/DES encryption)
		<ul style="list-style-type: none"> • Any of the end points should be able to show presentation in addition to the main video in a Multipoint call.
12	Warranty	3 years Premium Partner warranty.

2. Multi party License for Video conferencing equipment - 1Nos

S.No	Description	
1	Multi party Video conferencing License for the above Video Conferencing equipment package.	Specify the number of Licenses for package.

3. Cables and Connectors - 1 sets.

S.No	Description	
1	Cables and connectors	Complete range of cables and connectors to integrate the above mentioned Video conferencing system

4. Full-HD – 55” LED Display Monitor for Video Conferencing System:- 1Nos

S.No	Description	Specifications
1	Full-HD - LED Display Monitor for Video Conferencing System	Full-HD - LED Display Monitor – Slim LED backlit module. Screen size = 55” = 139 cms. With Remote control.
		Video / audio – input/ outputs: HDMI – 3 Nos USB 2.0 – 3 Nos Composite Video + audio Component Video + audio Headphone / RCA analog out.

5. HDMI Video Recorder : - 1Nos –

S.No	Description	Specifications
1	HD (High Definition) video Recorder	HDMI Video Input : <u>Progressive</u> 1920x1080 @ 60/59.94/50/30/29.97/25/24/23.98 Frames per second 1280x720 @ 60/59.94/50 Frames per second. <u>Interlaced</u> 1920x1080i 29.97/25 frames per second Video Input Format Auto-Detectable.

		HDMI Video output : Preview output of video input signal. Recording File FoRecor Recording File Format: F File Type i- Industry Standard MP4 and MOV files with two channels of embedded AAC audio. Recording Lengths – Minimum file length of 300 Minutes. Storage types for file recording : To SupportSD and SDHC cards (Class 10) And USB 2.0
	Warranty	3 Years warranty.

6. Wireless Lapel Microphone – 1 Nos.

S.No	Description	
1	Wireless Lapel Microphone set.	consisting of Lapel Mic, wireless transmitter and compact receiver. The system should be UHF and of Broadcast audio quality. Microphone should be Cardoid – Unidirectional.

7. Interactive Tablet for PC / laptop: - 1Nos –

S.No	Description	Specifications
1	Interactive Tablet for PC / laptop	22" Touch creative Pen display. Full HD – 1920 X 1080. Multiple levels of Pen pressure. Should be compatible with Windows and Mac. Ergonomic rotating stand.