

**BHARATHIAR UNIVERSITY: COIMBATORE - 641 046**

**No. BU/2020-21/R-D5/Vid. Conf./PRO/443**

**Date: 21.01.2021**

**TENDER NOTICE**

Sealed tenders are invited by the Registrar, Bharathiar University, Coimbatore 641 046 **upto 3.00 p.m. on 09.02.2021** for providing Video Conferencing facilities to the Syndicate Hall of Bharathiar University.

Tender Documents can be downloaded from **our website: [www.b-u.ac.in](http://www.b-u.ac.in)**. **From 25.01.2021 to 09.02.2021**. The cost of the tender documents **Rs.1,575/-and EMD Rs.13,000/-** has to be enclosed in the form of DD or by bank challan in the Bank of India, Bharathiar University drawn in favour of **“The Registrar, Bharathiar University, Coimbatore”** while submitting the tender.

**REGISTRAR i/c**

**BHARATHIAR UNIVERSITY COIMBATORE: 641 046**  
**TENDER CONDITIONS AND INSTRUCTIONS FOR THE SUPPLY OF**  
**Video Conferencing facilities**

1. Sealed Tenders will be received by the Registrar up to 3.00 p.m. on **09.02.2021** for providing “**Video Conferencing facilities**” to the Syndicate Hall of Bharathiar University, Coimbatore as given in the schedule.
2. **The tender shall be submitted in a sealed cover superscribed as “Tender for providing “Video Conferencing facilities” to the Syndicate Hall of Bharathiar University, due on 09.02.2021 at 3.00 p.m.**
3. **The tenders will be opened by the Registrar in the Registrar’s Chamber at 4.00 p.m. on 09.02.2021 in the presence of tenderers who are present.**
4. Each tender shall be accompanied with an **EMD of Rs.13,000/- (Thirteen thousand only)** in the form Bank of India Challan or DD drawn in one of the Nationalized Banks in the name of “Registrar, Bharathiar University” payable at Coimbatore. Cheques and Bank Guarantees will not be accepted. Tenders without EMD shall be summarily rejected. EMD will not carry any interest.
5. Tenders received late will be returned to the tenderer unopened.
6. The entries in the tender schedule shall be as far as possible without scoring, corrections and over writings and shall be legible. The unavoidable correction or scoring shall be attested by full signature of the tenderer. The tenderer should sign on each page of the tender document.
7. In the tender schedule the tenderer should quote his rates for each item separately in figures and words in the corresponding column.
8. If the rates quoted in the schedule differ in words and figures, the lowest quoted rate will be taken. The unit rates quoted in the schedule is those governing payment.
9. Taxes or any other charges if any shall be clearly mentioned specifying the percentage. If this is not specifically mentioned it will be taken that the rates quoted are nett.
10. **If the tenderers quotes the price with GST, should mention the valid GST registration Number along with the copy of the registration Certificate.**
11. The rate quoted shall be for delivery at University Campus.
12. No revision of rates at any cost will be accepted.
13. Tender documents are not transferable.
14. The tender shall be submitted only in this official form and the tenderers should sign on each page of the all tender documents and enclosed without any omission.

15. **The tender shall be valid for a minimum of 180 days from the date of opening.** Tenderer should not withdraw his tender after the tenders are opened. In case the tender is withdrawn after it opened, the EMD remitted will be forfeited.
16. The EMD of the unsuccessful tenders will be refunded immediately after the tenders are disposed of by the competent authority.
17. Successful tenderer shall remit a **security deposit of 5.5%** of the accepted tender order value and execute an agreement on Tamilnadu stamp paper to the value of Rs.100.00. Failure to execute the agreement within the stipulated time will entail in forfeiture of the EMD. Security Deposit will be refunded after audit/warranty period is over.
18. The material should be supplied within the stipulated period mentioned in the supply order. If the supply is not made within the period the supply order will be cancelled and EMD will be forfeited.
19. The materials quoted shall confirm ISI standard. The make of the materials shall be mentioned in the tender.
20. Any dispute arising out of this contract shall be settled only at the court having jurisdiction of Coimbatore.
21. The authority competent to accept the tender reserves the right to reject or accept any tender without assigning any reasons thereof.
22. Regarding the acceptance of supply with reference to the specification and quality of materials supplied. The decision of University Registrar shall be final.
23. The University's general rules for the supply of the materials and works will apply on this purchase also.
24. The tender is submitted subject to and agreeing to the above conditions. Original tender documents should be enclosed otherwise it will be liable for rejection.
25. Downloaded tender documents should be accompanied with tender cost and EMD in the form of DD drawn in favour of the Registrar, BU.

Cost of Tender document ( to be filled by the tenderer)			
DD/Challan No	Date	Amount	Bank

Details of EMD Amount (to be filled by the tenderer):			
DD/Challan No	Date	Amount	Bank

**SIGNATURE OF THE TENDERER**  
**MOBILE NO:**

**BHARATHIAR UNIVERSITY: COIMBATORE 641 046**

**Schedule for Video Conferencing facilities**

S.No	DESCRIPTION (VIDEO CONFERENCING)	QTY	UNIT PRICE
<p>1.</p> <p>2.</p> <p>3.</p>	<p>Room Kit Plus w/Codec Plus, Quad Camera Touch 10 Control unit.</p> <p>Specification ESS WITH 8X5XNBD Spark Kit Plus w/Codec Plus, Quad Camera</p> <p><b>Software compatibility</b> -Collaboration Endpoint Software Version 9.0 or later, or Webex Room OS</p> <p><b>Default components in Webex Room Kit Plus</b> - Webex Codec Plus, Webex Quad Camera, Touch 10 control unit, Wall mount for Quad Camera.</p> <p><b>Minimum bandwidth for resolution/frame rate</b> - H.264,720p30 from 768 kbps,720p60 from 1152 kbps,1080p30 from 1472 kbps,1080p60 from 2560 kbps</p> <p><b>Firewall traversal</b> - Expressway™ technology, H.460.18, H.460.19 firewall traversal</p> <p><b>Video standards</b> - H.264, H.265, and H.263 for TANDBERG™ MXP interoperability only</p> <p><b>Video inputs</b> - One HDMI input supports formats up to maximum 1080p60,Two HDMI inputs support formats up to maximum 4K (3840 x 2160) at 30 fps including HD1080p60, Extended Display Identification Data (EDID),Consumer Electronics Control (CEC) 2.0</p> <p><b>Video outputs</b> - Two HDMI outputs support formats up to 3840 x 2160p60 (4Kp60),Consumer Electronics Control (CEC) 2.0</p> <p><b>Encode and decode</b> - Main video: Full HD 1080p60,Presentation channel: UHD 4K 2160p5, including 1080p30 and 720p60</p> <p><b>Audio standards</b> - G.711, G.722, G.722.1, G.729, AAC-LD, and Opus</p> <p><b>Audio features</b> - High-quality 20 kHz audio, Subwoofer line out for Quad Camera, Prepared for inductive loop (line out),Automatic Gain Control (AGC),Automatic noise reduction, Active lip synchronization</p> <p><b>Audio inputs</b> - Three microphones, 4-pin mini-jack, Embedded audio on two HDMI inputs</p> <p><b>Audio outputs</b> - 1 line out mini-jack (stereo) (Codec Plus),1 RCA output for subwoofer (Quad Camera)Embedded audio on one HDMI output,HDMI input #1 supports Audio Return Channel (ARC): Audio output to Quad Camera</p> <p><b>Speakers (Quad Camera)</b> - High-quality speakers, Frequency response: 70 Hz to 20 kHz, ax output level SPL 90dB</p> <p><b>Dual stream</b> - H.239 (H.323) dual stream, Binary Floor Control Protocol (BFCP) (SIP) dual stream, Support resolutions up to 3840 x 2160p5 (4Kp5),1080p30 and 720p60</p> <p><b>Wireless sharing</b> - Webex Teams app (up to 3840 x 2160p5),Intelligent Proximity client (up to 1920 x 1080p5)</p> <p><b>Protocols</b> - H.323, SIP, Webex, ISDN PRI/BRI using the optional ISDN Link</p> <p><b>Embedded encryption</b> - H.323 and SIP point-to-point. Standards-based: H.235 v3 and Advanced Encryption Standard (AES), Automatic key generation and exchange.</p> <p><b>IP network features</b> - DNS lookup for service configuration, Differentiated services (Quality of Service [QoS]), IP-adaptive bandwidth management (including flow control),Automatic gatekeeper discovery, Dynamic playout and lip-sync buffering,H.245 Dual-Tone Multi-Frequency (DTMF) tones in H.323,RFC 4733</p>	<p>1</p> <p>1</p> <p>1</p>	

	<p>DTMF tones in SIP, Date and time support using Network Time Protocol (NTP),Uniform Resource Identifier (URI) dialing, Dynamic Host Configuration Protocol (DHCP),802.1X network authentication,802.1Q Virtual LAN,802.1p [QoS and Class of Service (CoS)],Media Assure and ClearPath, including packet loss-based down speeding</p> <p><b>Call control</b> -Unified Communications Manager (CUCM)</p> <ol style="list-style-type: none"> <li>1.Native registration CUCM</li> <li>2.Requires CUCM Version 10.5.2 or later with device pack Room Kit Plus Expressway - Native registration with Expressway</li> </ol> <p>Webex - Third-party H.323 Gatekeepers and standards-based SIP proxies</p> <p><b>IPv6 network support</b> - Single call stack support for both H.323 and SIP, Dual-stack IPv4 and IPv6 for DHCP, SSH, HTTP, HTTPS, DNS, DiffServ,Support for both static and automatic IP configuration (stateless address auto configuration)</p> <p><b>Security features</b> - Management using HTTPS and SSH,IP administration password, Password to access administration features on Touch 10 controller, Disable IP services, Network settings protection</p> <p><b>Certificate management</b> - Certificate Authority Proxy Function (CAPF) support for additional security, Manufacturer-Installed Certificates (MIC),Locally Significant Certificates (LSC),X.509 Digital Certificates (DER encoded binary); both DER and Base-64 formats are acceptable for the client and server certificates; certificates with a key size of 1024, 2048, and 4096 are supported</p> <p><b>Other interfaces</b> - USB 2.0 port, USB, factory reset pinhole</p> <p><b>Network interfaces Codec Plus</b> - 1 Ethernet (RJ-45) 10/100/1000 for LAN,1 Ethernet (RJ-45) 10/100/1000 for direct pairing with camera (camera control),1 Ethernet (RJ-45) 10/100/1000 with Poe, for direct pairing with Touch 10,Wi-Fi 802.11a/b/g/n/ac 2.4 GHz and 5 GHz for LAN,2x2 multiple input and multiple output (MIMO)</p> <p><b>Power supplies (2)</b> - 100 to 240 VAC, 50/60 Hz, 12V DC input. Average 20 W, peak 70W,Quad camera must be used with power supply FSP FSP070-AHAN2 or AcBel ADF019</p> <p><b>Operating temperature and humidity</b> - 0°C to 35°C (32°F to 95°F) ambient temperature,10% to 90% Relative Humidity (RH)</p> <p><b>Storage and transport temperature</b> - -20°C to 60°C (-4°F to 140°F) at RH 10% to 90% (noncondensing)</p> <p><b>Locking mechanism</b> - Kensington security lock</p> <p><b>Camera overview (Quad Camera) -</b></p> <ol style="list-style-type: none"> <li>1. (4) 5K CMOS sensors with machine intelligent switching; providing single HD output at 1080p</li> <li>2. Support up to 60 fps</li> <li>3. 15.1 MP image sensor</li> <li>4. 1/1.7 CMOS</li> <li>5. 5x digital zoom (3 tele-lenses each with 50° horizontal field of view)</li> <li>6. f/2.0 aperture</li> <li>7. 83° horizontal field of view; 51.5° vertical field of view</li> <li>8. Auto-framing (audio + face detect)</li> <li>9. 5120 x 2880 pixel resolution</li> <li>10. Auto focus, brightness, and white balance</li> <li>11. Focus distance 1 m to infinity</li> </ol> <p><b>**Regional MAF (Manufacturer Authorization Form) certificate from OEM should be enclosed along with tender application form (certificate coating this tender number).</b></p> <p><b>Warranty:</b></p>		
		GST @	
		Grand Total Rs.	

**Nett rate should be quoted**

**SIGNATURE OF THE TENDERER**

**NOTE:**

1. Please quote the price with make of the items, without make the tender will not be considered.
2. The University is eligible for exemption of Central Excise Duty as per Government Notification No: 10/97 Central Excise Dt. 1.3.97. Hence, the item price may be quoted separately (i.e.) unit price & taxes etc; only. The University will be given necessary exemption form for Central Excise. It is also eligible for Customs Duty exemption as per the Government Notification No: 51/96 Customs Dt. 23.06.1996.
3. The firm may be quoted the rate as per the tender specification, the rate quoted by the firm will be considered if it is only as per the tender specifications. If there is any deviation of specification from the tender specification, the tender will not be considered.
4. The Original tender form should be submitted to this office along with the tender schedule.

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