

TENDER NOTICE
DCB Girls' College, K.K BARUAH ROAD
Jorhat Assam.PIN: 785001
Virtual Class Room cum Conference Room
Date: 6th January 2018
Tender Notice No. DCB/TEN/Jan/2018/01

1. Sealed Bids affixing Court Stamp of Rs 8.25(Rupees eight and paisa twenty five only) are invited from Registered and Reputed Contractors, Dealers, Firms and Companies for Virtual Class room Solutions in DCB Girls' College Jorhat, Assam. **Technical Specifications are mentioned separately.**
2. On placing order, the successful Bidders will have to deposit (Performance Bank Guarantee) a Security Money @5% on the value of the work order.
3. Bid must be submitted as per the Technical Specifications mentioned.
4. After sale service must be ensured and a Legal Agreement has to be signed by the successful bidders in this regard.
5. Last date for submission of **Hard copy** of Bid is **17th January 2018 (3.00 PM IST)**
6. The Bid will be opened by the Purchase Committee of DCB Girls College, Jorhat, Assam.
7. The decision of the Committee will be the final in this regard.

Principal,
DCB Girls' College
Jorhat, Assam.

Technical Specification Sheet

Sl. No	Name of Item	Required Technical Specification and Standards	Qty
1	Video conferencing unit		01 no
(i)	Video Standards	H.261 , H.263, H263+, H.263++ , H.264 High Profile, H.264 Baseline Profile	
(ii)	Video Frame Rate	Should support 60 fps with 1080p resolution from day one	
(iii)	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 PC or document camera can be seen simultaneously.	
(iv)		Should support H.239 and BFCP protocols with 1080p resolution	
(v)	Multi-Point Feature	Should have 4 way SIP/H.323 in 1080p/60fps Multipoint video conference feature enabled from day one.	
(vi)	Video	Should support 2 monitors for Self View, Remote View and Content all in separate Monitors.	
(vii)	Video Output	Should have at least 2 nos. of HDMI / or equivalent (High Definition Multimedia Interface) output to connect Full High Definition display devices such as plasma and projectors for both Video and Content.(Dual Monitor Support)	
		Should support 2 monitors for Self View, Remote View and Content all in separate Monitors	
(viii)	Video Input	Should have at least 2 HD video Input to connect full HD cameras.	
		Should have at least one additional video Input to connect auxiliary full HD camera.	
		Should have VGA/DVI/HDMI port to connect PC/ Laptop directly to the Video conferencing system and display resolutions upto 1080p	
(ix)	Audio : Audio standards supported	G.711, G.722,G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standard must be supported.	
(x)	Other Desirable features	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller,	
(xi)	Audio Inputs	Should support 4 Microphone inputs from day one	
		Bidder should supply 1 tabletop microphone.	
		The microphones must be standard based microphones.	
		The pick up of the microphones should be at least 6 feet from the microphone	

		Echo Cancellation for every input must be available	
(xii)	External devices	Should have USB port	
(Xiii)	Network Interfaces	1 LAN /Ethernet-10/100/1000 Mbps full duplex. Should have support for IPV4 networks	
(xiv)	Bandwidth	IP at least 6 Mbps and upto 18 Mbps	
(xv)	Security : Menu Control	Password protected system menu	
(xvi)	Encryption of video call	<ul style="list-style-type: none"> • ITU-T standards based Encryption of the video call • Call should be encrypted end-to-end on IP • Should support Standards-based: SRTP (AES 128 bit), H.235 (AES 128 bit) 	
(xvii)	Camera	3x optical zoom cameras with 1920x1080p 60 frames per second.	
(xviii)	Specifications:	Pan range: +/-100 degrees, Tilt range: +/-20 degrees	

2	55 Inch Diagonal Full HD LED Display	Screen Size: 55 Inch Diagonal Panel Type: E LED/IPS Aspect Ratio: 16:9 Resolution: 1920X1080 Viewing angle: 178 x 178 Video In X 1 HDMI X 3 USB X 2 Speaker : 20W	1 No.
3	43 Inch Diagonal Monitor	Screen Size: 43 Inch Diagonal Panel Type: E LED/IPS Backlight Scanning: 100Hz Aspect Ratio: 16:9 Resolution: 1920X1080 pixel Video In (RCA)X 1 HDMI X 3 PC In X 1 (on HD 15 Pin) PC Audio In X 1 USB X 2 (Media Player) speaker : 20Watt	2 Nos

4	32 Inch Diagonal Full HD LED Display	Screen Size: 32 Inch Diagonal Panel Type: E LED/IPS Aspect Ratio: 16:9 Resolution: 1920X1080 Viewing angle: 178 x 178 Video In X 1 HDMI X 3 USB X 2 Speaker : 20W	1 No.
5	interactive	21 inch interactive LED Display	01 no
6	Computer	Computer core i3 processor(Windows 10 original)	01 no

7	Amplifier	<p>Performance</p> <p>Frequency response(Line): 60 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)</p> <p>Frequency response(Mic.): 70 Hz to 20 kHz (+1/-3 dB @ -10 dB ref. rated output)</p> <p>Distortion: <1% @ rated output power, 1 kHz</p> <p>Bass Control: Max. \pm 8 dB</p> <p>Treble Control: Max. \pm 8 dB</p> <p>Mic./Line input: 4</p> <p>Sensitivity: 1 mV (mic.); 300 mV (line)</p> <p>Impedance: >1 kohm (mic.); >5 kohm (line)</p> <p>Dynamic range: 93 dB</p> <p>S/N (flat at max volume):>63 dB (mic.); >70 dB (line)</p> <p>S/N (flat at min volume/muted): >75 dB</p> <p>CMRR (mic.) >40 dB (50 Hz to 20 kHz)</p> <p>Headroom:>25 dB</p> <p>Speech filter: -3 dB @ 315 Hz, high-pass, 6 dB/oct</p> <p>Phantom power supply: 16 V via 1.2 kohm (mic.)</p> <p>Music input</p> <p>Sensitivity: 200 mV</p> <p>Impedance: 22 kohm</p> <p>S/N (flat at max volume:)>75 dB</p> <p>S/N (flat at min volume/muted): >80 dB</p> <p>Headroom:>25 dB</p> <p>Loudspeaker output</p> <p>Max / rated: 180 W / 120 W</p>	1 No.
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8	Delegate Unit	<p>Microphone with flexible stem and light ring</p> <p>Built-in loudspeaker</p> <p>Two headphone sockets</p> <p>Built-in volume control for headphones</p> <p>Controls and Indicators:</p> <p>Microphone on/off button.</p> <p>Rotary volume control for adjusting headphone volume.</p> <p>Loudspeaker, automatically muted when microphone is on.</p> <p>Microphone 'on' indicator (red LED).</p> <p>Light ring indicator on microphone stem, lights up red when microphone is on.</p> <p>Nominal Acoustic Input at the microphone: 85dB SPL</p> <p>Frequency Response: 400Hz to 10Khz</p>	15 nos
9	Chairman Unit	<p>Priority button for chairman microphone.</p> <p>Optional chime tone facility preceding chairman announcements.</p> <p>Microphone with flexible stem and light ring.</p> <p>Two headphone sockets.</p> <p>Microphone on/off button.</p> <p>Rotary volume control for adjusting headphone volume.</p> <p>Loudspeaker, automatically muted when microphone is on.</p> <p>Microphone 'on' indicator (red LED).</p> <p>Light ring indicator on microphone stem, lights up red when microphone is on.</p> <p>Nominal Acoustic Input at the microphone: 85dB SPL</p> <p>Frequency Response: 400Hz to 10Khz</p>	01 No.

10	Controller	<p>Controls and Indicators</p> <p>Equaliser comprising of knobs at 250Hz, 2kHz and 8kHz</p> <p>Volume control for Mic 1 input</p> <p>Volume control for Mic 2 / Aux input</p> <p>Headphone input and volume control</p> <p>Master volume control</p> <p>Switch for Equaliser On/Off</p> <p>Switch to enable or disable the priority tone for chairman units</p> <p>Number of Active microphone control knob</p> <p>Interconnections</p> <p>Trunk input and output 8-pin DIN connectors for loop through connection</p> <p>Microphone input with XLR connector</p> <p>Configurable Mic or Aux input with 6.5mm phono jack</p> <p>Cinch connectors for connecting to external PA system and recorder</p> <p>Control up to 50 Discussion units.</p> <p>Electrical</p> <p>Mains voltage: 230VAC, 50 Hz ($\pm 10\%$)</p> <p>DC voltage supply to contribution units: $24V \pm 1V$ DC</p> <p>THD at rated output $< 1\%$</p> <p>SNR $> -50\text{dB}$ at rated output (unweighted filter)</p> <p>Inputs</p> <p>Mic input sensitivity: 1 mV ($+1/-3\text{dB}$)</p> <p>Aux input sensitivity: 100mV ($+1/-3\text{dB}$)</p> <p>Frequency response: 200 Hz to 12 kHz</p> <p>Input Impedance: 4.7 kohm</p> <p>Equaliser:</p> <p>Centre frequencies of filters: 250Hz, 2kHz and 8kHz</p> <p>Filter bandwidth: 1 octave</p> <p>PA Output</p> <p>Rated output Impedance: 100 ohm</p> <p>SNR: $> -50\text{dB}$ at rated output (unweighted filter)</p> <p>REC out</p> <p>Rated output Impedance: 1 kohm</p> <p>SNR: $> -50\text{dB}$ at rated output (unweighted filter)</p>	01 No.
11	Speaker	<p>Peak Power; 100W</p> <p>Power Handling: 50W</p> <p>Type: Bass Reflex</p> <p>Nominal Impedance: 8 Ohms</p> <p>Transformer Tapings: 25W/20W/15W/10W+8 ohms Direct</p> <p>Angle of Coverage: $90^\circ \times 90^\circ$</p> <p>Max SPL: 108 dB</p> <p>Crossover: 12 dB</p>	4 Nos.

12	Dual Wireless Microphone	Carrier frequency range: 660 to 865 MHz Modulation: FM Audio bandwidth: 40 to 20,000 Hz Frequency stability (-10°C to +50°C): ±15 kHz T.H.D. at 1 kHz typ.: 0.8% Compander integrated Signal/noise ratio typ.: 105 dB(A) RF output typ.: Max. 10 mW Power requirement single: 1.5-V AA size battery Battery life:>30 hours Required Item: One Receiver, One Hand Held Transmitter, One Body Pack Transmitter with Collar Microphone.	Per Unit
13	Cable	VGA Cable and HDMI cable	01 lot
14	Splitter	VGA and HDMI Splitter	01 lot
15	Connectors	Connectors	01 lot

Terms and Conditions:

1. The College reserves the right to accept or reject any or all the quotations without assigning any reason.
2. The Bidder must have prior experience of executive of Virtual class room installation at least **10 or more in any Government/Educational sector**. And bidder must provide details of PO copies.
3. Payment will be made only after the successful receipt of the materials in good running condition.
4. The Bidder must have proper **GST**, PAN, Trade License, and Service Tax Registration Number and the same shall have to be enclosed along with the quotation.
5. The Bidder must have submit **OEM Certificate** (Original Equipment manufacturer) for these Tender and address to The Principal, DCB Girls College, Jorhat, Assam.
6. In the event of any kind of holiday, the quotations shall be opened on the next working day.
7. The tendering firm must have a permanent establishment& local service centre in Assam State.

**Principal,
DCB Girls' College
Jorhat, Assam.**