

Tender Reference No.: SVSPA/HA/NIT-45(e)/2018

E-Tender Notice

The Director, Swami Vivekananda State Police Academy, West Bengal, Barrackpore invites e-tenders from the registered and bonafide Manufacturers (OEM)/authorised dealers/suppliers/firms with sufficient experience of similar work for S.I.T.C. (Supply Installation Testing & Commissioning) of Video Conferencing Facility for virtual classrooms at 04 (three) different locations at SVSPA, Barrackpore, Regional Training Centres at Dabgram (Siliguri), Bidhannagar (Durgapur) and Salua (Kharagpur). Rates should be quoted in the prescribed format (standardized BOQ format).

EMD Amount is Rs. 1,00,000/-. Last Date of Online Bid submission: **20/02/2018 at 18:00 hrs.**

Bid Opening Date: 23/02/2018 at 10:00 hrs.

Detailed information can be obtained from the websites: <https://wbtenders.gov.in> /www.svspawb.in and also from the office of the Director, Swami Vivekananda State Police Academy, West Bengal, Barrackpore, Mangal Pandey Uddyan, PIN- 700120 on any working day between 11:00 hrs to 16:00 hrs.

Sd/-
Director

Memo. 339 (11)/HA

Date: 06/02/2018.

Copy to: -

1. The DIG (AP), Barrackpore.
2. The All Commandants of SAP / SSF Bns, Barrackpore.
3. The Jt.CP (HQ) Barrackpore Police Commissionerate.
4. The SDO, Barrackpore.
5. The I/C Barrackpore PS.
6. The I/C Titagarah PS.

---- It is requested to display the Tender Notice in their Notice Board for wide circulation.

Sd/-
Director

ANNEXURE – “A”

Sl. No.	Features	Specifications
Preferred Brands:		CISCO/POLYCOM/AVAYA
Video		
1	Video Standards	H.263,H.263+,H.264 High Profile, and H.264 SVC
		H.264 in an Encrypted call should be possible
		H.264 should be possible when sending or receiving two live video sources e.g. Presenter and Presentation.
2	Video Frame Rate	Should support 60 fps with 1080p resolution from day one and day one ready to support for 1080p60fps (frames per second)
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 PC or document camera can be seen simultaneously.
		Advanced screen layouts
		Intelligent video management
		Local auto-layout
4	Video Output	Should have at least 2no.'s of HDMI / DVI (High Definition Multimedia Interface) output to connect Full High Definition display devices such as monitors and projectors for both Video and Content.(Dual Monitor Support)
		It should be possible to display the main video on one HD screen and the presentation/dual video on the other HD screen.
5	Video Input	Should have at least one HD video Input to connect HD camera with full functionalities as mentioned in the camera specifications
		Should have input to connect PC/ Laptop directly to the Video conferencing system and display resolutions from WXGA (1280 x 768) to 1080p (1920 x 1080). The endpoint must have capability of PC audio from day one
Audio		
1	Audio Inputs	Should support 2 Microphone from day one
		The pick up of the microphones should be at least 10 feet from the microphone.
		One minijack for line-in (stereo)
		One audio in from camera (HDMI)
2	Audio Outputs	Echo Cancellation for microphone must be available.
		Should support digital main audio output with the HDMI interface
3	Other Desirable features	One minijack for line out (stereo)
3	Other Desirable features	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller
Network Interfaces		
1	Speed & Protocol	2x LAN /Ethernet--10/100/1000 Mbps full duplex
		Should have support for IPV4 and IPV6
		TCP/IP, RTP/RTCP, DNS, DHCP
		HTTP, HTTPS,
2	Bandwidth	IP - at least 6 Mbps
3	Firewall Traversal	H.460.18, H.460.19 firewall traversal
4	Network Capabilities	Packet Loss Based Downspeeding
5	Multiparty Conferencing	The endpoint should have upgrade capability of 1+3 sites for an inbuilt multipoint call with advanced audio & video transcoding and rate matching
		Individual layouts in MultiSite continuous presence
		Support for Presentation (H.239) from any participant at resolutions up to 1080p30
		Best Impression (automatic continuous presence layouts)
		H.264, encryption and dual stream from any site
6	H.323/ IP Features	H.323/SIP/VoIP in the same conference
		Differenciated Services(QOS): IP Precedence.

Sl. No.	Features	Specifications
		DiffServ
		IP adaptive bandwidth management (including flow control)
		Auto Gatekeeper discovery
		Auto Network Address Translation(NAT) support
		Standards based- Packet Loss Recovery feature on H.323 call
		Support for H.245 DTMF tones in H.323
7	SIP Features	The endpoints must support SIP in addition to H323 protocol. Calls can be made on SIP or H323 without having to restart or reconfigure the endpoint.
		Must support data sharing capability in SIP calls for dual stream transmit and receive.
Recording		
1	Features	Either internal or External recording facility should be provided to record VC of atleast 1 hr duration.
Security		
1	Menu Control	Password protected system menu
2	Encryption of video call	ITU-T standards based Encryption of the video call
		Call should be encrypted end-to-end on IP
		Should support Standards-based: H.235 and AES Encryption via Automatic key generation and exchange. The same should be available in a call with Video with presentation (dualvideo)
		Automatic key generation and exchange
Camera		
		Minimum of 12X Optical zoom
		1920 x 1080 pixels progressive @ 60fps
		Far-end camera control
		Auto White Balance
		Backlight Compensation
		Brightness Control
		White Balance
		Autofocus
Display Unit		
(Preferred Brands: LG/SONY/BARCO)		
1	Panel	Screen Size: 86" or higher
		Panel Technology: IPS
		Aspect Ratio: 16:09
		Native Resolution: 3,840 x 2,160 (UHD) or better
		Brightness: 350cd/m2 or better
		Contrast Ratio: 1,200:1 or better
		Dynamic CR: 500,000:1 or better
		Viewing Angle (H x V): 178 x 178 or more
		Monitor Dimension (W x H x D): 1,926.2 x 1,097.2 x 60.6mm (without logo / handle)
		Life time (Min.): 30,000 Hrs or more
		Guaranteed Operation Hours: 16 Hrs or more
		Orientation: Landscape
		Warranty: 3 years
2	Connectivity	Inputs: HDMI(3), DP, DVI-D, Audio, USB 3.0, SD Card
		Outputs: DP, Audio
		External Control: RS232C, RJ45, IR Receiver, Pixel Sensor
Others		
1	Directory services	Should support Local and Global directories
		Should support LDAP and H.350 protocols for directory transfer.
2	External devices	Should have USB port to connect external devices.
3	Warranty	3 years, onsite with fast response time.
4	Maintenance	Onsite maintenance support at all four locations for one year.
5	Training	Onsite training support to all four locations for six months.