

# NAGALAND UNIVERSITY

(A Central University Estd. By the Act of Parliament No.35 of 1989) Headquarters: Lumami – 798627

# Supply of Video Conferencing Equipment to Nagaland University

SI.	Particulars	Qty.	Rate per item	Total
No.				
1	VC System for Remote Office	2		
2	VC System for Head Office	1		
3	40" Full HD Display	2		
4	55" Full HD Display	1		

### 1. SPECIFICATIONS FOR REMOTE OFFICE/LOCATION

The proposed system must support PAL with a PTZ camera. The codec must be based on ITU standards The VC End Point should be a codec based hardware. No software based solution is accepted here. All components of the VC system like Codec, Camera and Microphone should be from the same OEM.OEM should be in the leader's position in the Gartner's (2016) Magic quadrant for group video systems report.

Description	Specification Parameter
Package	Full HD 1080p camera, codec, Microphone Array, cables,
	and remote control
Video Standards and Resolutions	<ul> <li>(i)It should support H.323, SIP standards for communications.</li> <li>(ii)It should support H.261, H.263, H.264 AVC/ SVC, H.264 High Profile</li> <li>(iii) It should support 1080p 60 fps, 1080p 30 fps, 720p 60</li> </ul>
	fps and 720p 30fps
Content Standards and Resolutions	(i) It should support content sharing using standard based H.239 and BFCP over SIP
	(ii) It should support content resolution at HD 1080p @
	30fps
	(iii) It should transmit both people and content
	simultaneously to the far end location at 1080p @30 fps
Audio Standards and Features	(i) It should support G.711, G.728, G.729A, G.722, G.722.1, AAC-LD or better
	(ii) It should support 20kHz bandwidth with crystal clear
	audio and stereo sound.
	(iii) Automatic Gain Control and Automatic Noise
	Suppression
	(iv) Keyboard noise reduction and instant adaptation echo
	cancellation
Video and Audio Inputs	(i) 1 x HD input for connecting main HD camera
	(ii) 1 x HDMI input for connecting PC/Laptop to share HD
	content
	<ul><li>(iii) 1 x Microphone Input(Support for minimum 2 mics)</li><li>(iv) 1 x 3.5mm stereo line-in</li></ul>
	Package Video Standards and Resolutions Content Standards and Resolutions Audio Standards and Features

6	Video and Audio Outputs	(i) 1 x HDMI output for connecting main monitor
	-	(ii) 1 x 3.5 mm stereo line-out
7	Other Interfaces	(i) 1 x 10/100/1000 LAN port
		(ii) 2 x USB 2.0 for software upgrade and connecting
		external devices
		(iii) 1 x RS-232 mini-DIN 8-pin
8	Camera	(i) It should support 1080p60fps with 10x optical zoom and $65^{\circ}$ field of view.
		(ii) It should be future capable of enhancing video conferencing experience with advanced face-recognition
		technology such that it automatically scans the room and seamlessly commands the main camera to appropriately
		frame the users during a call without any manual
		intervention.
		(iii) It should support PAN Range of +/-100°, and Tilt of
		+/-20°
9	Network Features	(i) H.323 and SIP bandwidth up to 3 Mbps
		(ii) IPv4 and IPv6 support from day one
		(iii) Auto Gatekeeper Discovery
		(iv) IP Precedence
	~ .	(v) H.323 based Packet Lost Recovery
10	Security	(i)Media Encryption (H.323, SIP): AES-128, AES-256
		(ii) Authenticated access to admin menus, web interface
		and telnet API
	Othern Chern Jan Ja	(iii) Local account password policy configuration
11	Other Standards	(i) H224/H.281, H.323 Annex Q, H.225, H.245, H.241, H.239, H.243, H.460
		<ul><li>(ii) It should support native Lync server integrations</li><li>(iii) Auto sensing power supply. 125VA @ 230V @ 60Hz</li></ul>
12	Marranty	
12	Warranty	1 (one) Year

## 2. SPECIFICATIONS FOR HEAD OFFICE

The End Point should be a codec based hardware. No software based solution is accepted here. Codec, Camera, & Microphone should be from the same OEM.OEM should be in the leader's position in the Gartner's (2016) Magic quadrant for group video systems report.

SI.	Description	Specification Parameter
No		
1	Package	(i) Full HD 1080p camera, codec, Microphone, cables, and remote control (ii) Should support
		(ii) Should support H.261, H.263, H.264. H.264 Annex G, H.239, H.263 &
		H.264 Video error concealment video standards and
		protocols
2	Video Input	(i) It should have 1 x Full HD camera (HD) as input.
		(ii) It should have 1 x HDMI port
		(iii) It should have 1 x VGA port
3	Video Out	It should have at least 2 x HDMI port to connect displays
4	Support for People Video Resolution	(i) 1080p, 60 fps from 1740 Kbps
		(ii) 1080p, 30 fps from 1024 Kbps
		(iii) 720p, 60 fps from 832 Kbps
		(iv) 720p, 30 fps from 512 Kbps
		(v) 4SIF/4CIF, 60 fps from 512 Kbps

		(vi) 4SIF/4CIF, 30 fps from 128 Kbps
		(vii) SIF (352 x 240), CIF (352 x 288) from 64 kbps
		(viii) QSIF (176 x 120), QCIF (176 x 144) from 64 kbps
		(ix) w288p from 128 kbps
		(x) w448 from 384 kbps
		(xi) w576p from 512 Kbps
5	Support for Input and Output	<i>Input</i> : WUXGA (1920 x 1200), HD (1920 x 1080i), HD
5	Content Video Resolution	$(1920 \times 1080p)$ , WSXGA+ (1680 x 1050), UXGA (1600 x
	Content video Resolution	1200), SXGA (1280 x 1024), WXGA (1280 x 768), HD
		(1280x720p), XGA (1024 x 768), SVGA (800 x 600)
		<i>Output</i> : WUXGA (1920 x 1200), HD (1920 x 1080),
		WSXGA+ (1680 x 1050), SXGA+ (1400 x 1050), SXGA
		(1280 x 1024), HD (1280 x 720), XGA (1024 x 768), VGA
		(640 x 480)
		(i) The Content up to 1080p resolution at 30 fps should be
		supported
		(ii) The Content Frame Rate of 60 fps up to 1080p
		resolution should also be supported
		(iii) It should be possible to do Content Sharing during a VC
		call.
6	Camera	(i) Full HD 1080p 60 fps
		(ii) 1920 x 1080p CCD imager
		(iii) Optical Zoom - 12X or more
		(iv) Field of View 72 Degree
		(v) It should be future capable of enhancing video
		conferencing experience with advanced face-recognition
		technology such that it automatically scans the room and
		seamlessly commands the main camera to appropriately
		frame the users during a call without any manual
		intervention.
7	Audio Input ports	(i) It should support 1 x Microphone Port (supporting a total
		of 2 microphones)
		(ii) It should have one 1 x HDMI port
		(iii) It should also have 1 x 3.5mm Stereo Line-in port
8	Audio Output Ports	(i) It should have at least 2 x HDMI port
	_	(ii) It should have at least 1 x 3.5mm Stereo Line-Out port
9	Other Interfaces	(i) It should have at least 2 x USB ports
		(ii) It should have at least 1 x RS-232 Mini-DIN 8-Pin port
10	Audio Standards and Protocols	(i) 22kHz bandwidth technology ,AAC-LD, 20 kHz
		bandwidth with G.719, 14 kHz bandwidth with G.722.1
		Annex C, 7 kHz bandwidth with G.722, G.722.1, 3.4 kHz
		bandwidth with G.711,G.728, G.729A OR Equivalent OR
		· · · · · ·
		Better (ii) It should support Automatic gain control
		(ii) It should support Automatic gain control
		(iii) It should support Automatic noise suppression
		(iv) It should support Keyboard noise reduction
		(v) It should support Live music mode
		(vi) It should support Instant adaptation echo cancellation
		(vii) It should have Audio error concealment
		(viii) It should support Lost Packet Recovery technology
		(ix) It should support StereoSurround technology
11	Other Standards	(i) H224/H.281, H.323 Annex Q, H.225, H.245, H.241,
		H.239, H.243, H.460
		(ii) It should also support BFCP (RFC 4562)
		(iii) Following Network parameters should be supported:
		(iii) I ono wing I tetwork parameters should be supported.
		(iv) It should have at least $1 \times 10/100/1$ G Ethernet

(vi) It should support H.323 and/or SIP up to 6 Mbps         (vii) It should support reconfigurable MTU size         (viii) It should support RS232 with API         (ix) It should support Microsoft Office Communications         server integrations         (x) It should support Microsoft ICE         (xi) It should also support IBM Sametime         (i) Algorithms: SHA-1, SHA-256, AES (256- bit, CBC/OFB/counter), PRNG         (ii) Authenticated access to admin menus, web interface and telnet API FIPS 140-2 Validated Cryptography (Validation Certificate #918)         (iii) PKI & certificate management (TLS 1.0 and SSL 3.0)         13       Other Specs         (i) It should be possible to integrate a conference phone (Optional)         (iii) It should be possible to integrate a Audio Mixer through a digital interface or equivalent interface.         14       Electrical Specs         (i) Operating temperature: 0—40°C         (ii) Operating temperature: -40°70°C         (ii) Non-operating humidity (non condensing): 5—95%         (v) Maximum altitude: 10,000 feet				
12       Security       (vii) It should support RS232 with API (ix) It should support RS232 with API (ix) It should support Microsoft Office Communications server integrations (x) It should support Microsoft ICE (xi) It should support Microsoft Lync 2010 (xii) It should also support IBM Sametime         12       Security       (i) Algorithms: SHA-1, SHA-256, AES (256- bit, CBC/OFB/counter), PRNG (ii) Authenticated access to admin menus, web interface and telnet API FIPS 140-2 Validated Cryptography (Validation Certificate #918) (iii) PKI & certificate management (TLS 1.0 and SSL 3.0)         13       Other Specs       (i) It should also support Internal Multipoint license for up to 4 sites (HDCP) via software upgrade. (ii) It should be possible to integrate a conference phone (Optional) (iii) 125VA @ 230V @ 60Hz Standard operating voltage/power specifications should be complied         15       Environmental Specs       (i) Operating temperature: 0—40°C (ii) Operating temperature: -40°—70°C (iv) Non-operating humidity: 15—80% (ii) Non-operating humidity: 15—80% (v) Maximum altitude: 10,000 feet			(v) It should support Auto-MDIX	
12       Security       (viii) It should support RS232 with API         12       Security       (i) Algorithms: SHA-1, SHA-256, AES (256- bit, CBC/OFB/counter), PRNG         12       Security       (i) Algorithms: SHA-1, SHA-256, AES (256- bit, CBC/OFB/counter), PRNG         13       Other Specs       (i) It should also support IIternal Multipoint license for up to 4 sites (HDCP) via software upgrade.         14       Electrical Specs       (i) Auto sensing power supply         15       Environmental Specs       (i) Operating temperature: 0-40°C         15       Environmental Specs       (i) Operating temperature: -40°-70°C         (ii) Non-operating tuming truther in the support support in the support is 10,000 feet       5-95%				
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interview       (xii) It should also support IBM Sametime         12       Security       (i) Algorithms: SHA-1, SHA-256, AES (256- bit, CBC/OFB/counter), PRNG         (ii) Authenticated access to admin menus, web interface and telnet API FIPS 140-2 Validated Cryptography (Validation Certificate #918)         (iii) PKI & certificate management (TLS 1.0 and SSL 3.0)         13       Other Specs         (i) It should also support Internal Multipoint license for up to 4 sites (HDCP) via software upgrade.         (iii) It should be possible to integrate a conference phone (Optional)         (iii) It should be possible to integrate a Audio Mixer through a digital interface or equivalent interface.         14       Electrical Specs         (i) Auto sensing power supply         (ii) 125VA @ 230V @ 60Hz Standard operating voltage/power specifications should be complied         15       Environmental Specs         (ii) Operating temperature: 0—40°C         (iii) Non-operating temperature: -40°—70°C         (iii) Non-operating humidity: 15—80%         (iii) Non-operating humidity (non condensing): 5—95%         (v) Maximum altitude: 10,000 feet				
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13       Other Specs       (i) It should also support Internal Multipoint license for up to 4 sites (HDCP) via software upgrade.         13       Other Specs       (i) It should be possible to integrate a conference phone (Optional)         14       Electrical Specs       (i) Auto sensing power supply         15       Environmental Specs       (i) Operating temperature: 0—40°C         16       (ii) Non-operating temperature: -40°—70°C         17       Non-operating humidity: 15—80%         18       Non-operating humidity (non condensing): 5—95%         19       Non-operating humidity (non condensing): 5—95%			telnet API FIPS 140-2 Validated Cryptography (Validation	
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(Optional)         (iii) It should be possible to integrate a Audio Mixer through a digital interface or equivalent interface.         14       Electrical Specs         (i) Auto sensing power supply         (ii) 125VA @ 230V @ 60Hz Standard operating voltage/power specifications should be complied         15       Environmental Specs         (i) Operating temperature: 0—40°C         (iii) Non-operating temperature: -40°—70°C         (iv) Non-operating humidity (non condensing): 5—95%         (v) Maximum altitude: 10,000 feet				
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14       Electrical Specs       (i) Auto sensing power supply         (ii)       125VA       @ 230V       @ 60Hz       Standard operating voltage/power specifications should be complied         15       Environmental Specs       (i) Operating temperature: 0—40°C       (ii) Operating humidity: 15—80%         (iii)       Non-operating temperature: -40°—70°C       (iv) Non-operating humidity (non condensing): 5—95%         (v)       Maximum altitude: 10,000 feet				
15       Environmental Specs       (i) Operating temperature: 0—40°C         (ii) Operating humidity: 15—80%       (iii) Non-operating temperature: -40°—70°C         (iv) Non-operating humidity (non condensing): 5—95%       (v) Maximum altitude: 10,000 feet	14	Electrical Specs		
15       Environmental Specs       (i) Operating temperature: 0—40°C         (ii) Operating humidity: 15—80%       (iii) Non-operating temperature: -40°—70°C         (iv) Non-operating humidity (non condensing): 5—95%       (v) Maximum altitude: 10,000 feet		-	(ii) 125VA @ 230V @ 60Hz Standard operating	
15       Environmental Specs       (i) Operating temperature: 0—40°C         (ii) Operating humidity: 15—80%       (iii) Non-operating temperature: -40°—70°C         (iv) Non-operating humidity (non condensing): 5—95%         (v) Maximum altitude: 10,000 feet				
(iii) Non-operating temperature: -40°—70°C (iv) Non-operating humidity (non condensing): 5—95% (v) Maximum altitude: 10,000 feet	15	Environmental Specs		
(iv) Non-operating humidity (non condensing): 5—95% (v) Maximum altitude: 10,000 feet			(ii) Operating humidity: 15—80%	
(v) Maximum altitude: 10,000 feet			(iii) Non-operating temperature: -40°—70°C	
(v) Maximum altitude: 10,000 feet			(iv) Non-operating humidity (non condensing): 5–95%	
16 Warranty 1(one) Year				
	16	Warranty	1(one) Year	

NOTE:

License should be 1+3 and should be compatible/work with existing Polycom setup.
 Installation/Setup, Training, Instruction Manual is mandatory for both Systems.



### NAGALAND UNIVERSITY

(A Central University Estd. By the Act of Parliament No.35 of 1989) Headquarters: Lumami – 798627

₹ 500/-

# TENDER DOCUMENT FOR SUPPLY OF VIDEO CONFERENCING SYSTEM TO NAGALAND UNIVERSITY

Name of the Firm	:
Address	:
Phone No.	:
Email ID	:



### NAGALAND UNIVERSITY

(A Central University Estd. By the Act of Parliament No.35 of 1989) Headquarters: Lumami – 798627

#### TERMS AND CONDITIONS:

- 1. VAT or any applicable Tax should be clearly indicated.
- 2. The Rates are FOR Nagaland University, Lumami.
- 3. Delivery of items should be within 30 days from the issue of order.
- 4. The University reserves the right to accept or reject the tenders without assigning any reason thereof and no representation will be accepted.

#### **TERMS OF PAYMENT:**

100% Payment after the receipt of equipment, successful installation, training, inspection, acceptance of equipment, and delivery of the items.