



**ICMR-NATIONAL INSTITUTE FOR RESEARCH IN REPRODUCTIVE HEALTH
(Indian Council of Medical Research)**

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Tender No. NIRRH/ST/11/2020-2021

Date: October 7, 2020

Subject: Tender for Supply & Installation of Video Conferencing Systems

Due Date: 28th October, 2020; 17.00 Hrs.

TECHNICAL SPECIFICATIONS:

I. Video conferencing System Conference Hall

1. Camera

Quantity:1

- Ultra-HD imaging system supports: 4 K, 1440 p, 1080 p, 900 p, 720 p, and SD at 30 fps, 1080 p, 720 p at 30 fps and 60 fps
- Smooth motorized pan, tilt and zoom
- Pan: $\pm 90^\circ$, Tilt: $+50^\circ / -90^\circ$, 15x HD zoom
- Field of View: Diagonal: 90° , Horizontal: 82.1° , Vertical: 52.2° , Autofocus
- Minimum 3 camera presets
- Video mute/unmute LED indicator
- Lens parks at -90° in sleep mode or privacy shutter for assured privacy

2. Microphone POD

Quantity: 3

- Pickup range: minimum 4.5 m diameter
- AEC (Acoustic Echo Cancellation), VAD (Voice Activity Detector), Background noise suppression
- Mute button with LED status indicator
- Daisy chain up to 7 Rally Mic Pods
- Frequency response: 90 Hz – 16 kHz
- Sensitivity: >-27 dB ± 1 dB @ 1 Pa or above
- Microphone data rate: 48 kHz or better
- Captive cable as per requirement (3m or above)

3. SPEAKER

Quantity: 2

- High-performance 76 mm driver with rare-earth magnet
- Removal of camera shake and audio interference
- Speaker volume 95 dB SPL @1 W, 100 dB SPL @7.5 W, both ± 2 dB at $\frac{1}{2}$ meter or better
- Sensitivity: 95 ± 2 dB SPL at $\frac{1}{2}$ meter or better
- Distortion: 200 Hz–300 Hz $< 2.5\%$, 300 Hz–10 kHz $< 1\%$ @7.5 W
- Speaker sampling rate: 48 kHz or better
- Connection cable as per requirement

4. TABLE HUB **Quantity: 1**

- Single CAT6A cable connection to Display Hub (5 m to 50 m cable as per requirement)
- Active speaker detection: analyzes audio from up to 7 Mic Pods and 56 beams every 8ms
- **Ports:**
 - 12 Pin connector for Rally Mic Pod
 - HDMI Type A pass-through to Display Hub (x2)
 - USB Type C
 - USB Type A (reserved for future capability)
 - USB Type B (connects to meeting room computer)
 - RJ45 (reserved for future capability)
 - Power input slot and adapter if required

5. DISPLAY HUB **Quantity: 1**

- HDMI Type A (x2) (connects to displays)
- USB C (connects to Rally Camera)
- USB Type B (connects to meeting room computer)
- RJ45 (connects to Table Hub)
- Mini XLR (x2)
- Powers one or two Rally Speakers
- Power input
- REMOTE CONTROL
- RF remote control
- CABLES / POWER as per requirement
- Camera to Display Hub
- 2 m USB 3.1 Type C to USB Type C 3.1
- Conference Room Computer to Display or Table Hub
- 5 m USB 3.1 Type A to USB Type B
- Display Hub to Table Hub
- Upto 25 m CAT6A Ethernet cable

6. INSTALLATION ACCESSORIES AND CABLES

- Installation of all the component with all required cables and accessories
- CAMERA MOUNTING KIT
Mounting Kit with cable retainers (x2) and mounting brackets for camera, speakers (x2), and hubs (x2)
- MIC POD MOUNT
Anchors mics and hides cables for a finished look
- POD HUB
Connect 1-3 Mic Pods (or additional hubs) for placement flexibility and under-table cabling
- CABLES
LAN, HDMI, Power, USB, MIC pod cable or any other cable as per requirement

7. UHD DISPLAY **Quantity: 2**

- Screen Size 55 inch
- Panel: OLED (Organic Light Emitting Diodes)
- Ultra HD (3840 x 2160) with UHD image processor
- Features: Preset picture mode, RF remote, Image processor, wireless display processor and built-in Wi-Fi.
- Brand: Any reputed brand with good service record like Samsung, LG, SONY etc.

8. LAPTOP

Quantity: 1

- Processor: Intel i5 10th generation
- RAM: 8 GB DDR4
- Graphics: 2 GB dedicated Graphics
- Storage: 512 GB SSD
- OS: Windows 10 64 bit
- Screen: 14 inch IPS screen,
- Light weight, metal body, Ports: HDMI, USB3, USB2, WiFi, Bluetooth, Gbps LAN etc
- Build quality: metal body and light weight (less than 1.6 kg)

9. COMPATIBILITY AND CERTIFICATIONS

- Plug-and-play USB connectivity
- Certified for Skype for Business and Microsoft Teams
- Zoom Certified
- Fuze Certified
- Certified for Google Hangouts Meet Hardware
- Microsoft Cortana® certified
- Cisco Jabber® and WebEx Compatible
- Compatible with BlueJeans, BroadSoft, GoToMeeting, Vidyo, and other video conferencing, recording, and broadcasting applications that support USB cameras

10. WARRANTY

Warranty and Support for 3 Years on all devices.

11. TRAINING

- The supplier will provide training to ICMR-NIRRH staff for operating and basic maintenance.

II. Video conferencing System Director Cabin

1. Wall mountable Integrated Camera microphone and speaker device **Quantity:1**

INTRGRATED CAMERA

- Custom Logitech lens with 5x HD zoom and motorized pan (+/- 25°) and tilt (+/- 15°)
Field of view: Diagonal: 120°, Horizontal: 113°, Vertical: 80.7°
Total Room Coverage (field of view + pan and tilt): 163° wide x 110° tall
3 camera position presets Auto-framing.
- Video performance:4K Ultra HD video calling (up to 3840 x 2160 pixels @ 30 fps with customer-supplied USB 3.0 cable)
- 1080p Full HD video calling (up to 1920 x 1080 pixels @ 30 fps)
- 720p HD video calling (up to 1280 x 720 pixels @ 30 fps)

INTEGRATED MICROPHONE

- Integrated microphone with 3 beamforming elements
Pickup Range: and
- Sensitivity: -27dB
- Microphone frequency response: 90Hz - 16kHz for full voice reproduction and high intelligibility without noise

- Beamforming performance: Factory-paired, very low distortion broadside beamforming algorithm steers the microphones directly at the talker for the best voice pickup and noise reduction
- AEC (Acoustic echo cancellation)
- VAD (Voice activity detector)
- Microphone background noise suppression

INTEGRATED SPEAKER

- Volume adjustable to 95 dB SPL at ½ meter peak
- Speaker sensitivity 86.5+/-3dB SPL at 1/2 meter
- Distortion: 200 Hz -300Hz < 3%, 3000 Hz -10KHz < 1%
- Anti-vibration enclosure and non interference.

ADDITIONAL SPECIFICATION

- In-built Bluetooth® wireless technology
- RF remote control
- Integrated table/wall mount and TV mount KIT

2. Microphone POD Quantity: 1

- Pickup range: minimum 4.5 m diameter
- AEC (Acoustic Echo Cancellation), VAD (Voice Activity Detector), Background noise suppression
- Mute button with LED status indicator
- Daisy chain up to 7 Rally Mic Pods
- Frequency response: 90 Hz – 16 kHz
- Sensitivity: >-27 dB +/-1 dB @ 1 Pa or above
- Microphone data rate: 48 kHz or better
- Captive cable as per requirement (3m or above)

3. INSTALLATION ACCESSORIES AND CABLES

- Installation of all the component with all required cables and accessories
- CAMERA MOUNTING KIT
- CABLES
LAN, HDMI, Power, USB, MIC pod cable or any other cable as per requirement

COMPATIBILITY AND CERTIFICATIONS

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- Microsoft Cortana® certified
- Cisco Jabber® and WebEx Compatible
- Compatible with BlueJeans, BroadSoft, GoToMeeting, Vidyo, and other video conferencing, recording, and broadcasting applications that support USB cameras

4. COMMERCIAL UHD DISPLAY Quantity: 1

- Screen Size 55 inch
- Panel: LED (Light Emitting Diodes)

- Ultra HD (3840 x 2160) with UHD image processor
- Features: Preset picture mode, RF remote, Image processor, wireless display processor and built-in Wi-Fi.
- Brand: Any reputed brand with good service record like Samsung, LG, SONY etc.

5. LAPTOP

Quantity: 1

- Processor: Intel i5 10th generation
- RAM: 8 GB DDR4
- Graphics: 2 GB dedicated Graphics
- Storage: 512 GB SSD
- OS: Windows 10 64 bit
- Screen: 14 inch IPS screen,
- Light weight, metal body, Ports: HDMI, USB3, USB2, WiFi, Bluetooth, Gbps LAN etc
- Build quality: metal body and light weight (less than 1.6 kg)

WARRANTY

- Warranty and Support for 3 Years on all devices.

TRAINING

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PREQUALIFICATION CRITERIA

- The OEM should be a reputed manufacturer providing this kind of solution for many years.
- The bidders should have deployed
- The bidder should have multiple people CCIE certified.
- The bidder must have multiple offices across India.
- The bidder should be an ISO certified bidder.
- The bidder must submit a specific MAF for this tender.