

**National Council of Science Museums
33 Block GN, Saltlake Sector V
Bidhannagar, Kolkata 700 091**

TENDER NO. I-18012/2/24(132)

Technical Specification

1) Supply and installation of Video conferencing system comprising of PTZ Camera, Microphone, speaker and Audio/Video hubs etc. – 1 Set

System should have the option to connect 2 display devices in the room and to connect any video source via HDMI / VGA on the table side and carry it to the display device up to 50 mts. All necessary cables, touch pad, camera, speaker, microphones, power adaptors, regional plugs, quick start guide along with the mounting bracket should be supplied by the same OEM. It should be connected with PC/Laptop through USB.

PTZ Camera with mounting adaptor: - 1 Set

Zoom: Minimum 15x HD zoom (minimum 5x optical + 3x digital)

Pan: Minimum 180° (±90°)

Tilt: Minimum 140° (+50° / -90°)

Field of View (Minimum): Diagonal: 90°, Horizontal: 82°, Vertical: 52°

Total Room Coverage (Minimum): 262° wide x 192° tall (field of view with pan and tilt)

Resolutions with 30fps: 4K Ultra HD, 1440p, 1080p, 900p, 720p, and SD

Resolutions with 60fps: 1080p, 720p

The camera should be facilitated with Wide Dynamic Range (WDR), low-light compensation, video noise reduction and low-light saturation optimization etc.

Privacy: Lens should park at -90° in sleep mode for assured privacy

Remote control: battery powered remote control

Table top Microphone: - 2 Sets

Pickup Range: Minimum 7 mtrs. diameter, At least four omnidirectional microphones forming eight acoustic beams

AEC: Should be facilitated with Acoustic Echo Cancellation

VAD: Should be facilitated with Voice Activity Detector

Should have Background noise suppression

Should have Mute button with LED status indicator

Should have facility to connect up to 5 (five) Mic modules through daisy chain

Frequency Response: around 90Hz – 16kHz

Sensitivity: better than -27 dB +/-1dB @ 1Pa

Microphone data rate: 48 kHz

...Contd P/2

From Pre-Page

Table top Speaker Bar: - 1 Set

Speaker driver should be minimum 76 mm with good quality magnet

Single connectivity display hub for both signal and power

Speaker volume: minimum 95dB SPL at 1W, 100dB SPL at 7.5W, both +/-2 dB at 0.5 meter

Sensitivity: 95+/-2 dB SPL at 0.5 meter or better

Distortion: Should be less than 2.5% for 200Hz–300Hz, 1% for 300Hz–10kHz at 7.5W

Sampling rate: 48 kHz

Accessories: All necessary modules/hubs/components required for the system along with cables, power supplies and connectors.

Metallic Mounting Kit with cable retainers: mounting brackets for camera, speakers and other boxes.

Warranty: Manufacturer's standard warranty not less than one year.

Make & Model offered: _____
(To be entered by bidder)