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Karnataka State Electronics Development Corporation Limited  
(A Government of Karnataka Enterprise)



No. KSEDC/ITS/P171/2025-26 [E-318670]

Date:30.06.2026

**INVITATION FOR QUOTATIONS (IFQ)  
FOR SUPPLY, INSTALLATION, COMMISSIONING, TESTING AND WARRANTY OF VIDEO CONFERENCE  
SYSTEM WITH ACCESSORIES TO KEONICS, BANGALORE**

1. Sealed quotations are invited from eligible and qualified Companies / Firms for Supply, Installation, Commissioning, Testing and Warranty of Video Conference System with Accessories to KEONICS, Bangalore in the format given below:

Sl	Item Description	Unit	Qty	GST Rate (%)	Unit Rate (Excl. GST) (in Rs.)	Unit Rate (Incl. GST) (in Rs.)
1	75' Inch Non- Interactive Display Panel (Non-Touch)	No.	01			
2	Audio and Microphone ( For Video Conferencing):	No.	01			
3	PTZ Camera:	No.	01			
	Total					

**2. Technical specification**

**2.1. 75' Inch Non- Interactive Display Panel (Non-Touch):**

Sl	Category	Specification
1	Display Type	LED / IPS Panel, Non-Touch
2	Screen Sizes	75"
3	Resolution	4K UHD (3840 × 2160)
4	Aspect Ratio	16:09
5	Brightness	300 cd/m <sup>2</sup> or Higher
6	Contrast Ratio	1000:1 or Higher
7	Viewing Angle	178° Horizontal / 178° Vertical
8	Colour Depth	10-bit or Higher
9	Refresh Rate	60 Hz (minimum)
10	Response Time	≤ 8 ms
11	Audio	Built-in Stereo Speakers, 2 × 10W or higher
12	Video Inputs	2 × HDMI 2.0, 1 × DisplayPort (optional)
13	Audio Inputs	3.5 mm Audio In, HDMI Audio Support
14	Audio Outputs	3.5 mm Audio Out, Optical SPDIF (optional)
15	USB Ports	Minimum 2 × USB Ports

16	Network / Connectivity	RJ45 Ethernet, Wi-Fi, Bluetooth (optional)
17	OS/Software Compatibility	Android / Windows / Linux / Tizen / WebOS
18	Control Interface	Remote Control / Web UI / RS232 / LAN Control
19	Mounting Options	VESA Standard (400 × 400 mm or above)
20	Power Supply	100–240V AC, 50/60 Hz
21	Power Consumption	≤ 350W for 75–85"
22	Operating Temperature	0°C – 40°C
23	Operating Humidity	10% – 80% RH (non-condensing)
24	Dimensions (Approx.)	Depends on screen size; e.g., 65" – 1480 × 860 × 60 mm
25	Weight	75" – 55–60 kg or Better
26	Environmental Compliance	BIS, CE Certified
27	Accessories	Remote Control, Power Cable, Wall Mount Kit, User Manual
28	Warranty	Minimum 3 Years On-site Comprehensive Warranty

**2.2. Audio and Microphone ( For Video Conferencing):**

Sl	Category	Specification
1	System Type	Integrated Audio and Microphone Solution for Conference / Meeting Room/ Training Room
2	Audio Coverage	Suitable for rooms up to 10–150 sq. meters (expandable based on requirement)
3	Microphone Type	Boundary / Ceiling Array / Tabletop / Wireless Gooseneck Microphones (as per setup)
4	Microphone Technology	Digital MEMS / Condenser with Noise & Echo Cancellation
5	Pickup Range	Minimum 4–6 meters (omnidirectional / cardioid pattern)
6	Frequency Response	100 Hz – 20 kHz
7	Sensitivity	-30 dB ± 3 dB
8	Signal-to-Noise Ratio (SNR)	≥ 65 dB
9	Connectivity Options	USB / 3.5 mm Audio / XLR / Bluetooth / IP (depending on model)
10	Supported Audio Protocols	AEC (Acoustic Echo Cancellation), ANR (Automatic Noise Reduction), AGC (Automatic Gain Control)
11	Microphone Power Supply	USB Powered / Phantom Power (48V) / Rechargeable Battery (for wireless models)
12	Speaker Type	Integrated Active Speakers / External Amplified Speakers
13	Speaker Output Power	Minimum 20W RMS per speaker or higher
14	Speaker Frequency Response	80 Hz – 16 kHz
15	Amplifier Type	Digital Class-D Amplifier (built-in or external)

16	Audio Inputs	Mic In, Line In, Bluetooth, USB Audio
17	Audio Outputs	Line Out, Speaker Out, HDMI Audio Out (if integrated with display)
18	Audio Control	DSP-Based Audio Processor with Noise Suppression, Gain Control, and Echo Cancellation
19	Mounting Options	Tabletop / Ceiling Mount / Wall Mount (as applicable)
20	Network Integration	Compatible with SIP, Dante or USB Audio for VC Systems (Optional)
21	Compatibility	Compatible with Zoom, Microsoft Teams, Google Meet, WebEx, etc.
22	Power Consumption	≤ 30W (operating)
23	Operating Temperature	0°C – 40°C
24	Operating Humidity	10% – 90% RH (non-condensing)
25	Cables & Accessories	All necessary audio cable, connectors, power adaptors and mounting accessories included
26	Compliance & Standards	CE, FCC, RoHS, BIS certified
27	Warranty	Minimum 3 Years Comprehensive On-site Warranty

**2.3. PTZ Camera:**

SI	Category	Specification
1	Camera Type	4K UHD PTZ (Pan-Tilt-Zoom) Professional Camera for Video Conferencing, Smart Classroom, and Auditorium Use
2	Image Sensor	1/2.5" or larger CMOS Sensor with Low-Light Enhancement
3	Effective Pixels	Minimum 8.3 Megapixels
4	Video Resolution	4K (3840 × 2160) @ 30 fps, 1080p @ 60/30 fps, 720p @ 60/30 fps
5	Optical Zoom	Minimum 12x–20x Optical Zoom
6	Digital Zoom	Up to 16x Digital Zoom
7	Lens Aperture	F/1.6 – F/3.5 (auto adjustable)
8	Field of View (FOV)	Diagonal: 80°–85°; Horizontal: 70°–75°; Vertical: 40°–45°
9	Pan Range	±170°
10	Tilt Range	-30° to +90°
11	Pan/Tilt Speed	Pan: 60°/sec, Tilt: 30°/sec. (adjustable)
12	Auto Tracking	AI-Based Presenter Auto Tracking (Face / Motion Detection)
13	Preset Positions	Minimum 10 via Remote / Up to 255 via Software Control
14	Focus Mode	Auto / Manual / One Push Focus
15	Exposure Control	Auto / Manual (Shutter, Iris, Gain)
16	White Balance	Auto / Manual / Preset modes

17	Low Light Performance	0.1 Lux (Color), 0.05 Lux (B&W with IR Cut Filter Off)
18	Backlight Compensation	Supported (BLC, HLC, WDR $\geq$ 120 dB)
19	Video Compression Formats	H.265, H.264, MJPEG
20	Output Interfaces	HDMI, USB 3.0, LAN (PoE Supported), SDI (optional), RS-232 / RS-485
21	Network Protocols	RTSP, RTMP, VISCA over IP, ONVIF, SRT, NDI
22	Audio Input	3.5 mm Line-In / Embedded via HDMI or USB
23	Audio Processing	Built-in AEC, Noise Suppression (where supported by model)
24	Control Methods	IR Remote, RS-232/485, IP (Web UI), USB (UVC), or Software Control
25	AI Features	Auto-Framing, Speaker Tracking, People Counting (optional based on firmware)
26	Power Supply	DC 12V / PoE (IEEE 802.3af)
27	Mounting Options	Table / Wall / Ceiling Mount (brackets included)
28	Power Consumption	$\leq$ 18 W (PoE /Adapter)
29	Operating Temperature	0°C – 40°C
30	Operating Humidity	10% – 90% RH (non-condensing)
31	Dimensions (Approx.)	150 mm $\times$ 150 mm $\times$ 180 mm
32	Weight	$\leq$ 2.0 kg
33	Compatibility	Plug-and-Play with Zoom, Microsoft Teams, Google Meet, WebEx, OBS, vMix, etc.
34	Firmware Upgrade	Web-based / USB Firmware Update Supported
35	Included Accessories	Power Adapter, Remote Control, USB 3.0 Cable, Mounting Kit, User Manual
36	Certifications	CE, FCC, BIS, RoHS Compliant
37	Warranty	Minimum 3 Years Comprehensive On-Site Warranty

### 3. Eligibility Criteria

- 3.1. The Applicant should be a Company/Firm with valid GST Registration. The Applicant should have a copy of GST Registration.
- 3.2. The Applicant should submit compliance to Technical Specifications and Technical Literature/ Data sheet of Quoted model.

### 4. Quoted Price:

- 4.1. The Applicant shall quote for items in the format of quotation attached.
- 4.2. The prices shall be quoted in Indian Rupees only.
- 4.3. All duties, taxes and other levies payable by the bidder (including GST) shall be included in the quotation.
- 4.4. GST in connection with the sale shall be shown separately and as applicable.
- 4.5. The rates and amount quoted shall be fixed for the duration of the contract and shall not be subject to any adjustment.

- 4.6. Rates for supply of partial requirements is not acceptable.
- 4.7. Corrections, if any, shall be made by crossing out, initialing, dating and rewriting.
- 4.8. Cable or Facsimile quotations are not acceptable.

**5. Each bidder must submit only one quotation.**

**6. Validity of quotations:**

- 6.1. The quotation shall remain valid for a period not less than 30 days after the deadline fixed for submission of quotations.

**7. Evaluation of quotations:**

- 7.1. The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e., which are properly signed, and conform to the terms and conditions and specifications in the following manner:

- 7.1.1. The evaluation will be done including all taxes. If the tenderer has not included the taxes in his quotation for the item rate, and has also not indicated the rate of taxes applicable, the quoted rate will be treated as though it is inclusive of taxes and no extra payment for taxes will be made
- 7.1.2. The evaluation would be done for all the items put together. The items for which no rates have been quoted would be treated as zero and the total amount would be computed accordingly. The tenderer who has quoted for partial quantity of any one or more item(s) would be treated as non-responsive. The Purchaser will award the contract to the responsive bidder, whose total cost for all the items put together is the lowest.

**8. Award:**

- 8.1. The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price (i.e., Total Amount):

- 8.1.1. The quantity mentioned in the above table/format is tentative and indicative only. The actual award of services shall be based on the purchaser requirement, and no claim shall lie on account of variation in quantity.
- 8.1.2. The Purchaser reserves the right at the time of contract award to increase or decrease the quantities of any or all of the items indicated in para 1 above by 25% without any change in the unit price or any other terms and conditions.

- 9. 100% payment shall be made after the Supply, Installation, Commissioning, Testing and Warranty of materials and their acceptance.

- 10. Notwithstanding the above, the Client reserves the right to accept or reject any quotations and to cancel the quotation process and reject all quotations at any time prior to the award of the contract.

**11. Last date and time of receipt of quotations:**

- 11.1. You are requested to submit the sealed quotations superscribed on the envelope **"INVITATION FOR QUOTATIONS (IFQ) FOR SUPPLY, INSTALLATION, COMMISSIONING, TESTING AND WARRANTY OF VIDEO CONFERENCE SYSTEM WITH ACCESSORIES TO KEONICS, BANGALORE"** on or before 07.07.2026 by 04.00 PM.

  
Director Technical,  
KEONICS, Bangalore.