क्षेत्रीय आयुर्वेद अनुसंधान संस्थान, तिरुवनन्तपुरम

(केंद्रीय आयुर्वेदीय विज्ञान अनुसंधान परिषद, आयुष मंत्रालय, भारत सरकार) पूजपुरा, तिरुवनंतपुरम -695012, केरल

REGIONAL AYURVEDA RESEARCH INSTITUTE, THIRUVANANTHAPURAM

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SCOPE OF WORK

Introduction: -

Regional Ayurveda Research Institute, Trivandrum (RARI) is a peripheral unit of Central Council for Research in Ayurvedic Sciences (CCRAS), an autonomous body under Ministry of AYUSH, Govt of India, situated at Poojappura, Thiruvananthapuram. The institute undertake, co-coordinate, aid and promote research in Ayurvedic Sciences with special emphasis on Life Style related disorders. The institute intends to setup a video conferencing system for a group of 10 to 15 people as per the directions of CCRAS Headquarters vide letter No. HQ-IT014/5/2023-IT dated 04.12.2023. The above said work shall be completed through procurement from GeM via online Bids. The detailed specification regarding the VC setup is attached herewith

Technical Specifications - Video Conference System				
SI No.	Parameter	Specification		
	PTZ Camera - 1 no			
1	Resolution	4K, 1440p, 1080p, 900p, 720p, and SD at 30fps 1080p, 720p at 30 fps and 60 fps		
2	Zoom	15x HD zoom (5x optical + 3x digital)		
3	Pan	180° (±90°)		
4	Tilt	140° (+50° / -90°)		
5	Field of View - Diagonal	90°		
6	Field of View - Horizontal	82°		
7	Field of View - Vertical	52°		
8	Autofocus	Required		
9	Camera presets	Minimum 3		
10	Video mute/unmute LED indicator	Required		
11	Wide Dynamic Range (WDR)	Required		
12	Low-light compensation	Required		
13	Video noise reduction	Required		
14	Low-light saturation optimization	Required		
15	Renders natural skin tones for each participant on camera	Required		
16	Reduces backlighting and glare without darkening the entire image.	Required		
17	Privacy	Lens parks at -90° in sleep mode for assured privacy		
18	Kensington security slot	Required		
19	Human figure detection	Required		
20	Auto-frame participants at meeting start	Required		

21	Auto-frame participants on-demand	Required		
22	Auto-reframe participants during	Required		
	meetings Microphone - 2 nos			
23 Pickup Range Pickup range: 15 ft / 4.5m diameter				
		Four microphones with eight beamforming		
24	beamforming	elements		
25	Mute button with LED status indicator	Required		
26	Daisy chain	Support minimum 5 nos		
27	Acoustic Echo Cancellation	Required		
28	Voice Activity Detector	Required		
29	Background noise suppression	Required		
30	Frequency Response	90Hz – 16kHz		
31	Sensitivity	>-27 dB +/-1dB @ 1Pa		
32	Microphone data rate	48 kHz or better		
33	Very low distortion broadside beamforming algorithm steers the factory-paired microphones directly at the talker for the best voice pickup and noise reduction	Required		
34	Beam focus refresh rate	8ms (125 times/second)		
		Speaker - 2 nos		
35	Driver Size	High-performance 3" (76mm) or higher		
36	Sensitivity	95+/-2 dB SPL at ½ meter		
37	Distortion	200Hz-300Hz <2.5%, 300Hz-10kHz < 1%@7.5W		
38	Sampling rate	48 kHz		
39	Anti-Vibration Suspension	Required		
40	Peak-limiting algorithm eliminates even momentary speaker clipping to prevent distortion	Required		
	Table	Hub & Display Hub - 1 each		
41	Connection Between Table Hub & Display Hub	Single cable (CAT6A) connection		
42	Bluetooth wireless technology	Required		
43	Table Hub Connectivity	HDMI Type A for wired content sharing 12 Pin connector for microphone USB Type C (Ultra HD / 4K capable) USB Type A (reserved for future capability) USB Type B (connects to meeting room computer) RJ45 (Ethernet)		
44	Display Hub Connectivity	HDMI Type A (x2) (connects to displays) USB C (connects to PTZ Camera) USB Type B (connects to meeting room computer) RJ45 (connects to Table Hub) Mini XLR (x2) (connects to Speakers)		
Remote Control - 1 no				
45	RF remote control	Required		

	65" Display - 1 no			
	Display Panel			
46	Diagonal Size	65" or higher		
47	Resolution	3,840 x 2,160 (16:9)		
48	Brightness (Typ.)	350 nit		
49	Contrast Ratio (Typ.)	4,000:1		
50	Panel type	IPS/VA		
51	Color Gamut	NTSC 72%		
52	Operation Hour	16/7		
	Connectivity			
53	Input	3x HDMI 2.0, 2x USB 2.0		
54	Output	1x Stereo mini Jack		
55	WiFi / BT	Required		
56	External Control	RS232C (In/Out), RJ45		
57	Speaker	2x10W		
	Features			
58	Temperature Sensor	Required		
59	Ambient Sensor	Required		
60	Auto Level	Required		
61	Wi-Fi (2.4/5.0GHz dual) and BT	Required		
62	Auto Source	Required		
63	Switching & Recovery	Required		
	Certification			
64	Safety	60950-1/62368-1		
65	EMC	Class B		
66	Security	802.1 x (WPA2 Enterprise): EAP-TLS, EAP-TTLS, EAP-PEAP		
67	Mounting	Wall mount Bracket Included		
	10 Met	ter Active HDMI Cable - 1 no		
68	Resolution	4K60Hz 4:4:4		
69	Hybrid Optical with Fibre & Copper Wire	Required		
70	HDCP	HDCP 2.2		
71	Bandwidth	18 Gbps		
72	Support ARC function	Required		
Cables, Mounts & Installation - 1 Lot				
73	Cables, Wall-Mounting Fixture, Installation & Integration	Should be included		