



RABINDRANATH TAGORE CENTRE FOR HUMAN DEVELOPMENT STUDIES



A joint initiative of
University of Calcutta & Institute of Development Studies Kolkata
(Sponsored by UGC)

Technical Specification of Audio-Visual Solutions for Class Room-1,2,3

Sl. No.	Component Description (Published tender)	Component Description (Corrigendum)
01	PTZ CAMERA :- • Sensor -1/2.8 inches CMOS, 2.07 Megapixels, Lens-10X Optical Zoom, F1.8-F2.6, Field of View (FOV)-58.5° - 6.5°, Video Format-YUY2: Max 1080P@30fps; MJPEG: 2160P@30fps; H.264 AVC/SVC: Max 2160P@30fps, Optical Zoom-4k 10X, AI Features- Presenter Framing, Group Framing, Humanoid Tracking, and Target Tracking, Minimum Illumination-0.5Lux @(F1.8, AGC ON), Shutter-1/30s - 1/10000s, Backlight Compensation-Supported, Digital Noise Reduction -2D & 3D DNR, Signal-to-Noise Ratio (SNR)->55dB, Pan Angle -170°, Tilt Angle --30° to 90°, Pan Speed -2.7° - 35.7°/s, Tilt Speed -2.7° - 31.5°/s, Preset Positions -255, Video Compression -H.264/MJPEG, Video Stream -Dual Stream (First and Second Stream), First Stream Resolution -3840x2160, 1920x1080, 1280x720, etc., Second Stream Resolution-1920x1080, 1280x720, 1024x576, etc. Video Bit Rate-32kbps - 20480kbps, Frame Rate-50Hz: 1fps - 25fps; 60Hz: 1fps - 30fps, Audio Compression -AAC, Audio Bit Rate-96kbps, 128kbps, 256kbps, Protocols-NDI (Optional), TCP/IP, HTTP, RTSP, RTMP, On if, DHCP, SRT, GB/T28181, Multicast, USB Interface-1 x USB 3.0 Type-C, HD Output-1 x HDMI, Network Interface -1 x RJ45: 10M/100M/1000M Adaptive Ethernet, Audio Interface-1 x Line In (3.5mm jack), Control Interface-1 x RJ45 (IN), 1 x RS232 IN (8Pin mini DIN, Max Distance: 30m), Protocol: VISCA/Pelco-D/Pelco-P, Power Interface -JETA Type (DC IN 12V), Accessory -IR Remote Control and Wall Mount kit (included as standard accessory), Certifications- BIS (Indian), CE, FCC, RoHS, and CB Certification. Pref. Brand- Peoplelink, LG.	PTZ CAMERA :- Camera with 10X Optical Zoom Connection/Interface-USB interface,, Video Resolution - 1920 x 1080 pixels (1080p @ 30fps) should support on Board H.264 or better on board Encoding to save PC processing power and should support USB 2.0 Plug and play , Field of View - Minimum of 58.5 degree or above , It should support 24 bit color or better , Aspect Ratio - The system should support 16:9 or higher , S/N Ratio - > 55dB , Pan range - The camera should have a PAN rotation angle of -170 degree to +170 degree or better , Tilt range - The camera should have a Tilt rotation angle of -30 degrees to +90 degrees or better, Auto Focus- Should support auto focus, , Certifications- BIS (Indian), CE, FCC, RoHS, and CB Certification. Pref. Brand- Peoplelink, LG
02	Camera Tray for Camera facing towards audience	Tray for Camera facing towards audience

Co-ordinator
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RABINDRANATH TAGORE CENTRE FOR HUMAN DEVELOPMENT STUDIES



CONTINUATION SHEET

Technical Specification of Audio-Visual Solutions for Seminar Room

Sl. No.	Component Description(Published tender)	Component Description(Corrigendum)
01	PTZ CAMERA :- Sensor -1/2.5 inches CMOS, 8.51 Megapixels, Lens- f4.4mm-52.8mm, F1.8-F2.6, Field of View (FOV)- 78°, Video Format-YUY2: Max 1080P@30fps; MJPEG: 2160P@30fps; H.264 AVC/SVC: Max 2160P@30fps, Optical Zoom-4k 12X, Digital Zoom -16X, AI Features- Presenter Framing, Group Framing, Humanoid Tracking, and Target Tracking, Minimum Illumination-0.5Lux @(F1.8, AGC ON), Shutter-1/30s - 1/10000s, Backlight Compensation-Supported, Digital Noise Reduction -2D & 3D DNR, Signal-to-Noise Ratio (SNR)->55dB, Pan Angle -170°, Tilt Angle --30° to 90°, Pan Speed -2.7° - 35.7°/s, Tilt Speed -2.7° - 31.5°/s, Preset Positions - 255, Video Compression -H.264/MJPEG, Video Stream - Dual Stream (First and Second Stream), First Stream Resolution -3840x2160, 1920x1080, 1280x720, etc., Second Stream Resolution-1920x1080, 1280x720, 1024x576, etc. Video Bit Rate-32kbps - 20480kbps, Frame Rate-50Hz: 1fps - 25fps; 60Hz: 1fps - 30fps, Audio Compression -AAC, Audio Bit Rate-96kbps, 128kbps, 256kbps, Protocols-NDI (Optional), TCP/IP, HTTP, RTSP, RTMP, On if, DHCP, SRT, GB/T28181, Multicast, USB Interface-1 x USB 3.0 Type-C, HD Output- 1 x HDMI, Network Interface -1 x RJ45: 10M/100M/1000M Adaptive Ethernet, Audio Interface- 1 x Line In (3.5mm jack), Control Interface-1 x RJ45 (IN), 1 x RS232 IN (8Pin mini DIN, Max Distance: 30m), Protocol: VISCA/Pelco-D/Pelco-P, Power Interface -JETA Type (DC IN 12V), Accessory -IR Remote Control and Wall Mount kit (included as standard accessory), Certifications- BIS (Indian), CE, FCC, RoHS, and CB Certification. Pref Brands-Peoplelink, LG	PTZ Speaker Tracking Camera -Camera should have advanced both audio positioning, body detection and recognition technologies which should precisely frame the active talking speaker automatically. It should automatically switch between close-up image for speaker(s) and wide-angle image for all attendees and should have Built-in image switch rules according to actual meeting scenarios, 1/2.8" CMOS sensor or better, Effective Pixels-2.14MP or better, Signal To Noise ratio-≥50dB or better, Minimum Illumination-0.5 Lux (Color), 0.1 Lux (B/W), Field of View-72.5°-6.3°or better, Optical /Digital Zoom-12x or better, Pan Angle--90°~+90°, Tilt Angle- -30°~+90°, Resolution-1920*1080@60fps or better, Video Output-1×HDMI Interface, 1×3G-SDI Interface, Protocols-HTTP, RTSP, RTMP, RTP, TCP, UDP, ONVIF or more, Video Compression-It should support H.265/.264 or better compression. Certifications- BIS (Indian), CE, FCC, RoHS, and CB Certification. Pref. Brand- Peoplelink, LG
02	Camera Tray for Camera facing towards audience	Tray for Camera facing towards audience
03	10 mtr 2.0 USB Cable for Camera	10 mtr 3.0 USB Cable for Camera

Last date and time of Submission
of both Technical & Financial Bid
Date and time of Opening of both
Technical & Financial Bid

03.08.2026 till 5:00 PM

04.08.2026 after 12:00 Noon

C&O Coordinator

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