

**Technical Specifications and Other Terms and Conditions**

**Annexure A**

**Scope of Work - OAT Smart Hybrid Classroom Studio Setup)**

**1) Bill of Quantity**

<b>S No</b>	<b>Product Type</b>	<b>Model</b>	<b>Product Description</b>	<b>Quantity</b>
1	<b>PTZ Camera</b>	PTZ Camera	4K Tracking PTZ Camera, 30x, Dual Stream (2160p/1080p/1080i/720p) - Black 1/2.8" CMOS sensor, 8.51Megapixels, 30x Optical zoom (16x Digital), FOV: 60° 4K-HDMI & 3G-SDI Output PTZ Video Camera, supports H.264/H.265/MJPEG encoding,RS-422 Sony VISCA /Pelco-D/Pelco-P/DVIP control (c/w IR Remote Control & Ceiling mount brackets) Optional Cam Control Device: Datavideo RMC-300A / RMC-180MKII / RMC-2P, PTZ View Assist APP.	2
2	<b>Wall Mount Bracket</b>	WM-1 (optional)	Wall Mount Bracket for PTZ Camera(Accessories) Color choice: Black Compatible with : S No.1 PTZ Camera	2
3	<b>streaming encoder</b>	4K Switcher with Built in Streaming Encoder	4K 7-in-1 4-CH Production Streaming Studio - Capture, Switch, Record & Stream - 4-CH 4K60 input & output switcher, 14" touchscreen control for Preview, Program & Control. - 7-in-1: Switcher, Touch Panel, Audio Mixer, Camera Control, Dual Stream Encoder & Recorder, Text/Graphic Overlay. - Video switching & Effect of PIP, PBP, QUAD, SPLIT... Text / Logo Overlay - Multi-Stream to FB & YouTube & Simultaneously Video Recording on SD card - Featuring 3x PTZ Video Camera Control function & Preset - Built in 4-CH Audio Mixer & Delay.	1
4	<b>USB-C Capture Box</b>	4K HDMI Capture Device	4K HDMI to USB 3.0 Capture Device (for VC application) Plug-n-Play HDMI-USB type C Capturing device supports up to 4K 2160p at 50/60fp with HDMI loop out . Compatible Software: Plug-n-Play HDMI-USB type C Capturing device supports up to 4K 2160p at 50/60fp with HDMI loop out . Compatible Software: - •Windows: AMcap, Google Meet, OBS (Open Broadcast Software), TeamViewer, Xsplit Broadcaster, zoom.us, Potplayer	1

			<ul style="list-style-type: none"> <li>•Linux: VLC, OBS</li> <li>•MAC OS: OBS, VLC.</li> </ul>	
5	<b>Multi-Camera Controller</b>	Universal remote control panel for PTZ Camera in S No 01	<p>DVIP Multi-Camera Controller (up to 24x PTZ Camera Control)</p> <p>In-Built with 5" LCD touch panel to control up to 24 Camera thru DVIP (8x camera via VISCA), 14 preset for each camera (NO Tablet is required, Calibration of PTZ Iris, Focus, White Balance etc.</p> <p>Connection to PTZ camera: RS-422 / Ethernet</p> <p>Compatible with: PTC-305/300/285/280/145/140/150 series, PTR series</p>	1
6	<b>Full HD desktop monitor</b>	17.3" Full HD Pull out Monitor	17.3" Full HD LCD w/ LED Backlight, 1920x1080P (Desktop Type) Supports 3G/HD/SD-SDI input the Loop, 2-CH HDMI inputs, stereo speakers & audio Interface; SDI & HDMI Cross conversion, SDI Time code, waveform, vector scope & audio level indicator, 8x Pixel Zoom, set safe area, selectable color temperature, PIP mode, blue only display.	1
7	<b>HDMI Converter</b>	Broadcast quality 4K SDI to HDMI Converter	4K SDI to HDMI 2.0 Converter ,(12G supported, up to 4096 x 2160 50P/59.94P/60P) (Reclock & Equalizer), 1x 12G/HD/SD-SDI Input to 1x HDMI 2.0 output w/embedded audio Converter. Audio Input: 2x SDI audio embedded, Audio Output: 2x HDMI audio embedded Optional: rack-mountable with RMK-2.	2
8	<b>Video Recorder</b>	ProRes 4K recorder	ProRes 4K-HDMI Video ISO Recorder w/ 5" Touch Screen LCD)(Bare unit without SSD), Video Input: 4x 3G-SDI (1x 12G-SDI), 1x 4K HDMI, 1x 1.4 HDMI /Video Output: 1x 12G/3G-SDI, 1x 4K HDMI, 1x 1.4 HDMI, Recording Format: QuickTime .MOV (File System: exFAT) /, Recording Bitrate: ProRes 422 HQ, ProRes 422, ProRes 422 LT, ProRes 422 Proxy.	1
9	<b>Interactive touch Display</b>	75-inch Interactive Touch Display with Stand	<p>Screen Size : 75"</p> <p>Resolution: 3840*2160</p> <p>Response Time: 8ms</p> <p>Viewing Angle: 178*178</p> <p>Surface Hardness: Toughened Glass with Level-7 of MOHS Standard</p> <p>Panel Technology: IPS</p> <p>OS: Android 11 and above</p> <p>CPU: Dual Quad Core Processor</p> <p>Memory: 4GB/8GB</p> <p>Storage: 32GB/64GB</p> <p>IR Receiver: Yes</p> <p>Pen: 2*Writing pens</p> <p>Type of Touch Technology: 40 touch points</p> <p>Interactive White Board Software: Support in Android and Windows</p> <p>Device Management: Device active trend and deactive displays. Anti-Glare Treatment.</p>	1

10	<p><b>Digital Display 75inches</b></p>	<p><b>Resolution:</b> 4K Ultra HD (3840 x 2160)   Refresh Rate: 50 Hertz.</p> <p><b>Connectivity:</b> Enjoy seamless integration with 3 HDMI Ports for connecting your Set-Top Box/DTH, Soundbar, Home Theater, Gaming Console, and more. Plus, stay flexible with 1 USB-A Port for easy access to Hard Drives and other USB-compatible devices. Stay connected with Wi-Fi 5, Bluetooth 5.2, and HDMI eARC, along with an Ethernet LAN Port for stable wired internet. Additional features include Anynet+ (HDMI-CEC) for unified control and RF In for Terrestrial/Cable input.</p> <p><b>Sound Features:</b> Powerful 20 W Sound Output   Object Tracking Sound   Q-Symphony   Bluetooth Audio   Adaptive Sound.</p> <p><b>Smart TV Features:</b> Works with Alexa/Google Assistant   Endless Content with Samsung TV Plus (Access 100+ free TV Channels)   Web Browser   SmartThings Hub   Matter Hub   IoT Sensor Support   Mobile-to-TV Mirroring   Sound Mirroring   Wireless TV On   Connect Apple Devices with AirPlay   Universal Guide   Workspace for Remote Access   Buds Auto Switch   Workout Tracker   Daily+   Multi Control   Storage Sharing   Energy Rating: 4 Star   Annual Energy Consumption: 144.54 kWh  Additional features: Slim-look Design   3 Bezel-less   TV Key   ConnectShare   Embedded POP   EPG   IP Control   MBR Support   Dongle Support   SlimFit Cam Compatible   S-Share.</p> <p><b>Display Features:</b> Crystal Processor 4K   HDR10+ Support   Pur Color   4K Upscaling   Color Booster   Mega Contrast   Contrast Enhancer   HLG (Hybrid Log Gamma)   UHD Dimming   Motion Xcelerator   HDMI Black Level   Film Mode   Filmmaker Mode.</p>	1
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11	<b>Display touch panel</b>	24 inch Pen and Touch Interactive Pen Display	<p>24" PEN / TOUCH TABLET FULL HD DISPLAY</p> <ul style="list-style-type: none"> <li>• LCD Panel Type : VA, Touch Input</li> <li>• Cover glass surface: Tempered AG etched glass</li> <li>• Aspect ratio 16:9</li> <li>• Native resolution 1920 x 1080 pixels</li> <li>• Video input DVI-I</li> <li>• Viewing angles (horizontal/vertical) 178° / 178°</li> <li>• Colours 16.7M colors</li> <li>• Luminance (brightness) 0.13 cd/in<sup>2</sup> / 210 cd/m<sup>2</sup> (typical)</li> <li>• Contrast ratio 1000:1 (typical)</li> <li>• Response time 16 ms (typical)</li> <li>• Dimensions (W x H x D, excluding stand) 23.66 x 14 x 1.8 inches / 601 x 356 x 46 mm</li> <li>• Stand inclination 11° - 73° adjustable stand</li> <li>• Communication interface USB 2.0</li> <li>• Programmable buttons 4</li> <li>• Screen dimensions 23.8" diagonal (20,75 x 11.65 inches / 527 x 296 mm)/</li> <li>• Coordinate resolution 2540 lpi</li> <li>• Coordinate accuracy ±0.04 inches / ±1.0 mm (center)</li> <li>• Report rate 100 points per second</li> <li>• Pressure levels : 2048</li> <li>• Encryption AES 256 / RSA 2048 /</li> <li>• Reading height 0.4 inches / 10 mm or more (center).</li> </ul>	1
12	<b>wireless microphone (Lapel)</b>	Clip-on Microphone	<p>WIRELESS LAPEL MICROPHONES</p> <ul style="list-style-type: none"> <li>• Compact bodypack transmitter, unobstrusive clip-on microphone</li> <li>• Antenna-switching diversity reception</li> <li>• Integrated antennas</li> <li>• Automatic frequency management and synchronization via remote</li> <li>• channel for easy setup</li> <li>• Selectable UHF frequencies within a large bandwidth</li> <li>• Up to 10 compatible channels</li> <li>• Receivers:</li> <li>• AF frequency response: 50 to 16,000 Hz (-3 dB)</li> <li>• Transmitter:</li> <li>• Adjustment Range Transmitter: 0 to -30 dB, adjustable in 10 dB steps</li> <li>• Microphone: condenser</li> <li>• THD: ≤ 0.9%</li> <li>• Pick-up pattern: omni-directional</li> <li>• Signal-to-noise ratio: ≥ 103 dBA</li> <li>• RF output power: 10 mW</li> <li>• Switching bandwidth: up to 24 MHz</li> <li>• Modulation: wideband FM.</li> </ul>	2

13	<b>wireless microphone (Cordless Handheld Mic)</b>	UHF wireless handheld microphones	<p><b>WIRELESS HANDHELD MICROPHONE</b></p> <ul style="list-style-type: none"> <li>• Mic System: Cardioid Handheld microphone 2 x AA 1.5v battery compatible</li> <li>• RF Power: 10 mW Transmission power</li> <li>• Frequency Response: Frequency response 80 – 16,000 Hz</li> <li>• Battery: approx. 10 hours operating time</li> <li>• Input sensitivity (capsule) :1.5 mV/Pa</li> <li>• Gain: Adjustment range of transmitter sensitivity 0 to -30 dB, adjustable in 10 dB steps</li> <li>• Transmitter Housing: rugged ABS housing</li> <li>• Receiver Housing : Rugged metal housing True diversity double superheterodyne stationary Receiver</li> <li>• Sensitivity (at peak deviation) :&lt; 3 μV at 52 dB(A)eff S/N</li> <li>• AF frequency response: 50 – 16,000 Hz (-3 dB)</li> <li>• Output: • 6.3 mm jack socket (unbalanced): +6 dBu, • XLR socket (balanced): +12 dBu</li> <li>• Audio Level Adjustment: Audio adjustment range 40 dB, continuously adjustable with control knob</li> <li>• Squelch Adjustable: Squelch Adjustable from 3 dBμV up to 28 dBμV (combined with pilot tone)</li> </ul> <p>Mic/Line Switching: Line/Mic level 20 dB, switchable.</p>	2
14	<b>Sound Channel Mixer</b>	14 channel mixer	<p>14-channel Mixer with 12 Mono Inputs, 2 Stereo Inputs, and 3-band Channel EQ and Peak LED Metering</p> <p>12 mic/line inputs plus two stereo line ins</p> <p>Two configurable auxiliary buses</p> <p>XLR-type and 1/4" metal jack connector sockets</p>	1

15	<b>Speakers(Classroom)</b>	<b>8-10 inch Compact Powered Loudspeaker</b>	<p>LF Transducer: 203 mm (8 in) , cone  HF Transducer: 35.6 mm (1.4 in) compression driver  Frequency Response (-6 dB) 56 - 20 kHz  Frequency Range (-10 dB) 53 - 20 kHz  Nominal Coverage Angle: 90° Axisymmetric  Maximum Rated SPL1: 124 dB  Amplifier: Class D  Peak: 800 W (LF), 200 W (HF)  Controls: Power  2 x Gain  Mic Boost Push Switch  6-way Contour Selection Switch  Indicators: Power LED  2 × Input Signal LED  Input B MIC selected LED  Limiter active LED  Connectors: 2 × locking XLR/F ¼” combo (Line Input and Mic/Line input)  1 × 3.5 mm TRS (Stereo Input)  1 × XLR/M (Mix Output)  1 × IEC power connector  AC Power Input: Universal power supply 100 – 240 VAC, 50 – 60 Hz  AC Power Consumption (1/8th Power): 100 VAC, 0.75A - 240VAC 0.31A  Enclosure Material: Polypropylene  Attachment Points: M8 threaded insert  Color: Black (RAL 9011)  Grille: 18 Gauge powder-coated steel  Speaker Dimensions (H×W×D): 411 × 273 × 256 mm  16.2 × 10.7 × 10.1 in  Carton Dimensions (H×W×D): 360 × 360 × 496 mm  14.2 × 14.2 × 19.5 in.</p>	4
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16	<b>Speakers(Classroom)</b>	<b>12 inch ultra compact active subwoofer</b>	<p>Configuration 6th-Order Bandpass Subwoofer          LF Transducer 305 mm (12 in), Cone          Frequency Response (-6 dB) 41 Hz - 108 Hz          Frequency Range (-10 dB) 38 Hz - 121 Hz          Maximum Rated SPL1 128 dB @ 1 m (peak)          Amplifier Class D          2000W (peak)          Cooling Low-noise, variable speed fan          Controls Power On/Off          Gain Control          Rotary encoder          2 × selection buttons          Indicators 2 × Power LED (front and rear)          Input Signal LED          Limiter Active LED          Connectors 2 × locking XLR/F 1/4-inch combo          2 × XLR/M (Loop-thru Output)          1 × locking IEC power connector          AC Power Input Universal power supply 100 - 240 VAC, 50 - 60 Hz          AC Power Consumption 100 VAC, 2.4 A / 120 VAC, 2.0 A / 240 VAC, 1.3 A          Enclosure Details          Enclosure 15 mm Birch Plywood          Color Black (RAL 9011)          Grille Internal woofer cover          Speaker Dimensions (H×W×D) 622 × 394 × 616 mm          24.5 × 15.5 × 24.25 in          Carton Dimensions (H×W×D) 740 × 500 × 673 mm          29 × 19.7 × 26.5 in.</p>	1
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17	Speakers (for PCR Room)	4.5-inch 2-way Loudspeaker	<p><b>4.5-inch Woofer:</b> Equipped with a 4.5-inch polypropylene cone woofer, delivering rich, detailed low-frequency sound for balanced audio output.</p> <p><b>1-inch Dome Tweeter:</b> Features a 1-inch (25 mm) silk-dome tweeter for clear and smooth high-frequency performance, enhancing speech intelligibility and musical clarity.</p> <p><b>Two-Way Design:</b> Provides a balanced separation of frequencies, ensuring accurate and natural sound reproduction for both music and voice.</p> <p><b>Wide Frequency Range:</b> Offers a frequency response from 70 Hz to 20 kHz, making it ideal for background music, foreground music, and paging applications.</p> <p><b>70V/100V Transformer:</b> Includes a built-in transformer with multiple tap settings for distributed audio systems, offering various power options. It also has an 8-ohm bypass for direct connection to low-impedance amplifiers.</p> <p><b>High Sensitivity:</b> With a sensitivity of 85 dB SPL, it delivers clear, efficient sound output in different environments without requiring excessive power.</p> <p><b>Weather-Resistant Enclosure:</b> Features a durable, weather-resistant enclosure (IP-54 rating), making it suitable for indoor and outdoor installations, including restaurants, retail spaces, and public venues.</p> <p><b>Stylish, Low-Profile Design:</b> The speaker is designed to blend with modern décor, available in black and white finishes, and has a sleek, low-profile appearance.</p> <p><b>Magnetic Grille:</b> Equipped with a paintable magnetic grille for a clean, seamless look and easy removal for servicing or repainting to match the environment.</p>	2
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18	<b>Digital signal processor</b>	open architecture Digital Signal Processor (DSP)	<p>Sl. No. Parameter Required Specification</p> <ol style="list-style-type: none"> <li>1 Type Open Architecture Digital Signal Processor</li> <li>2 Form Factor Quarter Rack, compact chassis</li> <li>3 Processing Architecture 40-bit floating point DSP</li> <li>4 Sampling Rate Minimum 48kHz</li> <li>5 AEC Integrated Acoustic Echo Cancellation</li> <li>6 AEC Channels Minimum 8 channels @ 250ms or 16 channels @ 100ms</li> <li>7 USB Audio Integrated USB Audio Interface</li> <li>8 USB Channels Minimum 2x2 USB audio</li> <li>9 Dante Audio Built-in 4x4 Dante / AES67</li> <li>10 Ethernet Ports Minimum 2 x RJ45</li> <li>11 PoE Support IEEE 802.3af Class 0</li> <li>12 Card Slots Minimum 8 user configurable I/O slots</li> <li>13 Audio Networking Dante and AES67 compliant</li> <li>14 DSP Functions EQ, Delay, Matrix Mixing, Dynamics, Filtering, Routing, Gain Control</li> <li>15 Control Support Ethernet control, Lua scripting</li> <li>16 Third Party Integration Compatible with Crestron, AMX and similar systems</li> <li>17 Software Drag-and-drop graphical DSP programming software</li> <li>18 Operating Platforms Windows and macOS</li> <li>19 Mounting Under-table / behind display / rack shelf compatible</li> <li>20 Indicators Audio, Network and System status LEDs</li> <li>21 Power Requirement PoE and/or external DC supply</li> <li>22 Latency Maximum 5ms propagation delay</li> <li>23 Warranty Minimum 5 Years OEM Warranty</li> <li>24 Certifications CE, FCC, RoHS</li> <li>25 Application Suitability Hybrid Classroom, Conferencing, Streaming Studio.</li> </ol>	1
19	<b>Amplifier</b>	Professional 4-Channel Audio Power Amplifier	<p>The amplifier shall be a professional-grade, high-efficiency Class-D, four-channel installation power amplifier with a minimum output of <b>4 × 100 W RMS</b> into 4 Ω and 8 Ω loads, with all channels driven simultaneously. It shall support both <b>low-impedance (4 Ω/8 Ω)</b> and <b>constant-voltage (70 V/100 V)</b> loudspeaker systems, with bridge mode capability for higher output power. The amplifier shall have a frequency response of <b>20 Hz to 20 kHz (±1 dB or better)</b>, <b>THD ≤0.1%</b>, <b>signal-to-noise ratio ≥100 dB (A-weighted)</b>, balanced line-level inputs, professional speaker output terminals, and universal <b>100–240 VAC, 50/60 Hz</b> power supply. The unit shall employ <b>fanless convection cooling</b> for silent operation and incorporate comprehensive protection against overload, overheating, short circuit, clipping, and DC faults. It shall include automatic</p>	1

			standby with signal sensing, LED indicators for power, signal, and protection status, and shall be supplied with all necessary mounting accessories for installation in a <b>maximum 1U rack-mount enclosure</b> . The amplifier shall comply with applicable international safety and EMC standards (CE/FCC/RoHS or equivalent) and shall be backed by a <b>minimum three-year comprehensive OEM warranty</b> .	
20	<b>Headphones</b>	Professional Closed-Back Studio Headphones	Professional headphone with 3.5mm jack and Impedance Unit of Measure 32 Ohms Noise Control None Frequency Response 16 Hz Audio Driver Type Dynamic Driver Frequency Range 16Hz–20kHz.	2
21	<b>Lighting</b>	Professional grade 100W LED Soft Light panel	100W LED Panel light <ul style="list-style-type: none"> <li>• 100W LED Soft Panel Light</li> <li>• 5600K colour temperature. CRI, TLCI and R9 value above 95.</li> <li>• Uniform shadow less output, No heat from light, No UV radiation,</li> <li>• Control mode: - Manual and DMX control mode through 5pin xlr.</li> <li>• Extreme soft illumination with diffuser.</li> <li>• 0 ~ 100% linear dimming.</li> <li>• Black powder coated fabricated housing with normal yoke but with Barndoor and safety chain.</li> </ul>	5
22	<b>Lighting Control System</b>	Professional DMX Controller	DMX Controller <ul style="list-style-type: none"> <li>• DmX Controller 12 Faders to control at least 12 channels with master control fader.</li> <li>• 12 Set Scene saving options.</li> <li>• Master Fader Enabled Controller.</li> <li>• LCD display</li> <li>• Smooth movement faders.</li> <li>• 12 Physical Fader unit for direct access.</li> <li>• Easy access key pads.</li> <li>• 12 Physical Fader unit for direct access.</li> </ul>	1
23	<b>PCR Room Mic</b>	18” Desktop Mounted Gooseneck mic	18” desktop gooseneck condenser microphone. It features a sturdy attached desktop base, an attached 10’ XLR cable, and a programmable on/off switch. Features logic input and output points for a remote control or use with an automatic microphone mixer.	1
24	<b>Collar Mic</b>	Professional Wireless Digital Microphone	All-in-One Wireless Microphones (Two transmitters and 1 Receiver), Intelligent Noise Cancelling, 32-Bit Float Internal Recording, 250M (820 Ft.) Range, Microphone for iPhone, Android, Camera	2

25	<b>Tripod</b>	Professional Heavy-Duty Camera Tripod	90 Inch/230Cm Ultra High Camera Tripod,Horizontal Overhead Shooting Travel Tripods With Metal Ball Head 10KG Load Capacity,Detachable Monopod,For Indoor And Outdoor Use.	1
26	<b>Tripod</b>	Professional Video Tripod with Fluid Head	The tripod shall be a <b>professional heavy-duty video tripod</b> designed for DSLR, mirrorless, ENG, and professional video cameras. It shall have a <b>minimum working height of 1880 mm (74 inches)</b> and a folded length not exceeding <b>900 mm</b> . The tripod shall support a <b>minimum payload capacity of 8 kg</b> and feature a <b>professional fluid head</b> providing smooth <b>360° panoramic rotation</b> and <b>tilt movement of at least +90° to – 75°</b> with a detachable pan handle. It shall include a <b>quick-release plate</b> compatible with standard camera mounting screws (1/4"-20 and 3/8"-16), dual bubble levels, and a secure locking mechanism. The tripod shall have <b>dual-stage aluminium alloy legs</b> with adjustable height, a <b>mid-level spreader or ground spreader</b> for enhanced stability, anti-slip rubber feet with retractable spikes for indoor and outdoor use, and a robust locking system for continuous professional operation. The complete unit shall be supplied with a carrying bag and all necessary accessories and shall be covered by a <b>minimum one-year comprehensive OEM warranty</b> .	1
27	<b>Professional 4K Handheld Camcorder with two additional batteries</b>	Professional Camcorder with Wide 24.5mm and Optical 20x Zoom Lens, 4K 60p/50p 10bit recording, Dual SD Card Slot	The camcorder shall be a <b>professional handheld 4K UHD camcorder</b> featuring a <b>1/2.5-inch or larger MOS image sensor</b> capable of recording <b>UHD (3840 × 2160) at up to 60p/50p</b> with <b>10-bit color depth</b> and support for <b>4:2:2 internal recording</b> (or better). It shall incorporate an <b>integrated optical zoom lens of minimum 20×</b> , covering a <b>wide-angle focal length of approximately 24.5 mm (35 mm equivalent)</b> , with advanced optical image stabilization and intelligent autofocus. The camera shall support <b>MOV, MP4, and AVCHD</b> recording formats, dual SDXC/SDHC memory card slots with relay and simultaneous recording, and high-bitrate recording of <b>up to 200 Mbps</b> . It shall provide professional interfaces including <b>HDMI output, USB, 3.5 mm headphone output, 3.5 mm microphone input, and dual XLR audio inputs with 48 V phantom power</b> . The camcorder shall feature a <b>3.5-inch LCD touchscreen</b> , high-resolution electronic viewfinder, built-in ND filters, Wi-Fi connectivity for wireless control and <b>Full HD live streaming (RTSP/RTMP/RTMPS)</b> , and operate on rechargeable battery as well as AC power. The unit shall be supplied complete with battery, charger, AC adapter, lens hood, microphone holder, and all standard accessories, and shall carry a <b>minimum two-year comprehensive OEM warranty</b> .	1

28	<p><b>Professional Full-Frame Mirrorless Digital Camera additional batteries 2</b></p>	<p>Full-Frame Hybrid Camera 33MP Interchangeable-Lens Mirrorless Camera Body (4K 60P Video Recording, Real-Time Eye AF for Humans, Birds, Animals) - Digital_Zoom</p>	<p>The camera shall be a <b>professional full-frame mirrorless interchangeable lens digital camera</b> equipped with a <b>minimum 33 Megapixel back-illuminated CMOS sensor</b> and an advanced image processor capable of delivering high-resolution still images and professional-quality video. It shall support <b>4K UHD video recording up to 60p</b> with <b>10-bit 4:2:2 internal recording</b>, advanced picture profiles including <b>Log and HDR</b>, and oversampled 4K recording from higher-resolution sensor readout. The camera shall provide a <b>hybrid autofocus system</b> with <b>minimum 700 phase-detection autofocus points</b>, real-time subject tracking, Eye AF for humans, animals, and birds, and in-body <b>5-axis image stabilization</b> providing at least <b>5.5 stops</b> of compensation. The camera shall support continuous shooting of <b>minimum 10 frames per second</b> with autofocus and auto-exposure tracking. It shall feature a <b>3.0-inch or larger vari-angle touchscreen LCD</b>, a <b>high-resolution electronic viewfinder</b>, dual memory card slots supporting <b>UHS-II SDXC/SDHC</b> (with at least one slot supporting <b>CFexpress Type-A or equivalent high-speed media</b>), and professional connectivity including <b>USB-C, HDMI Type-A, Wi-Fi, Bluetooth, microphone input, headphone output, and Multi Interface/Accessory shoe</b>. The camera shall be compatible with interchangeable full-frame lenses, supplied with a rechargeable battery, charger, body cap, shoulder strap, USB cable, and user documentation, and shall carry a <b>minimum two-year comprehensive OEM warranty</b>.</p>	1
29	<p><b>Professional Standard Zoom Lens</b></p>	<p>E Mount FE 24-70mm F2.8 GM Full-Frame Lens (SEL2470GM)   Standard Zoom</p>	<p>The lens shall be a <b>professional full-frame standard zoom lens</b> compatible with a full-frame mirrorless interchangeable lens camera system. It shall provide a <b>focal length range of 24–70 mm</b> with a <b>constant maximum aperture of f/2.8</b> throughout the zoom range. The lens shall feature a high-performance optical design with <b>special low-dispersion and aspherical lens elements</b>, a <b>minimum 9-blade circular aperture</b> for smooth background rendering, and advanced anti-reflective coating to minimize flare and ghosting. It shall support <b>fast, accurate, and silent autofocus</b>, a <b>minimum focusing distance of 0.38 m</b>, <b>manual focus override</b>, and a <b>focus hold/customizable function button</b>. The lens shall have an <b>82 mm filter thread</b>, weather- and dust-resistant construction suitable for professional field use, and shall be supplied with a lens hood, front and rear caps, protective carrying case, and</p>	1

			all standard accessories. The equipment shall carry a <b>minimum two-year comprehensive OEM warranty.</b>	
30	<b>Memory card 160 gb Type A- Series</b>	Express Type A Gold Series Memory Card	Express Type A Gold Series Memory Card, Write speed of 700 Mbs, Up to 900MB/s Read, Cinema-Quality 8K Video, Rated VPG 400	2
31	<b>CFEXPRESS Type A Card Reader</b>	CFexpress Type-A memory card reader	<b>CFexpress Type-A memory card reader</b> and designed for rapid data transfer from professional imaging devices. It shall support <b>USB 3.2 Gen 2 (10 Gbps) or higher</b> interface through a <b>USB Type-C</b> connector and be backward compatible with USB 3.0/2.0 standards. The reader shall provide <b>plug-and-play</b> operation without the need for external power, support major operating systems including <b>Windows and macOS</b> , and sustain transfer speeds suitable for high-resolution photo and 4K/8K video workflows. The enclosure shall be compact, lightweight, and durable, with efficient heat dissipation for continuous operation. The unit shall be supplied with a <b>USB Type-C to Type-C cable, USB Type-C to Type-A cable (or adapter)</b> , protective carrying pouch/case, and all standard accessories. The equipment shall carry a <b>minimum one-year comprehensive OEM warranty.</b>	2
32	<b>Full Size Memory card 128 gb</b>	Professional SDXC UHS-II Memory Card write speed of 260 MB/s	<b>Professional-grade SDXC UHS-II</b> memory card with a <b>minimum storage capacity of 128 GB</b> , suitable for high-speed photography and professional 4K/6K video recording. It shall comply with <b>UHS-II, U3, V90 (or higher)</b> speed class standards and provide a <b>minimum sequential read speed of 300 MB/s</b> and a <b>minimum sequential write speed of 260 MB/s</b> . The card shall support continuous high-speed burst shooting, RAW image capture, and high-bitrate video recording. It shall be <b>waterproof, shockproof, temperature-resistant, X-ray proof, magnetic-proof, and anti-static</b> , ensuring reliable operation in demanding field conditions. The memory card shall be supplied with a protective storage case and shall carry a <b>minimum five-year OEM warranty.</b>	2
33	<b>Custom</b>	Custom Ceiling Bars	Suitable for hanging lights and PTZ Cameras	4
34	<b>HDMI Extenders</b>	HDMI over CAT6/CAT6A <b>4K UHD (3840 × 2160 @ 30 Hz or better)</b>	<b>HDMI over CAT6/CAT6A</b> transmission system capable of extending <b>uncompressed Full HD (1920 × 1080 @ 60 Hz)</b> signals over a single CAT6/CAT6A cable for a minimum distance of <b>100 meters</b> , or <b>4K UHD (3840 × 2160 @ 30 Hz or better)</b> for a minimum distance of <b>70 meters</b> . The extender shall support <b>HDCP compliance</b> , EDID management, lossless audio transmission, and low-latency signal delivery. It shall provide <b>HDMI input and output interfaces</b> , support plug-and-play operation, and include LED indicators for power and link status.	1
35	<b>HDMI AOC Cable 20mts</b>	<b>Active Optical HDMI (AOC) cable</b>	<b>20-metre Active Optical HDMI (AOC) cable</b> designed for professional AV applications, supporting <b>HDMI 2.0 or higher</b> with a maximum resolution of <b>4K UHD (3840 × 2160) at 60 Hz</b> , 4:4:4 chroma sampling, and a bandwidth of <b>18 Gbps or</b>	2

			<p><b>higher.</b> The cable shall support <b>HDR (HDR10 or better), HDCP 2.2 or higher, 3D video, CEC, EDID, ARC,</b> and uncompressed multi-channel digital audio formats. It shall be lightweight, flexible, EMI/RFI immune due to optical fibre transmission, and suitable for long-distance, lossless signal transmission without the need for external power. The cable shall be factory-terminated with <b>standard HDMI Type-A male connectors</b> at both ends, clearly marked for source and display orientation, and shall be supplied with a <b>minimum one-year comprehensive OEM warranty.</b></p>	
36	<b>HDMI Cable 4 mts</b>	<b>HDMI 2.0 or higher supporting 4K UHD (3840 × 2160) at 60 Hz</b>	<p><b>HDMI 2.0 or higher,</b> capable of supporting <b>4K UHD (3840 × 2160) at 60 Hz with 18 Gbps or higher bandwidth.</b> It shall support <b>HDR (HDR10 or better), HDCP 2.2 or higher, 3D video, CEC, ARC,</b> and uncompressed multi-channel digital audio transmission. The cable shall be constructed with <b>high-purity copper conductors,</b> triple-layer shielding to minimize EMI/RFI interference, gold-plated HDMI Type-A male connectors, and a durable, flexible outer jacket suitable for professional AV installations. The cable shall be plug-and-play, fully backward compatible with earlier HDMI standards, and shall carry a <b>minimum one-year comprehensive OEM warranty.</b></p>	2
37	<b>CAT6 Cable coil of 305mts</b>	Category 6 (CAT6) Unshielded Twisted Pair (UTP)	<p><b>Category 6 (CAT6) Unshielded Twisted Pair (UTP)</b> solid copper LAN cable conforming to <b>ANSI/TIA-568.2-D, ISO/IEC 11801, and IEEE 802.3</b> standards or equivalent. It shall consist of <b>23 AWG solid bare copper conductors with 4 twisted pairs,</b> suitable for <b>Gigabit Ethernet (10/100/1000 Mbps)</b> applications and supporting bandwidth of <b>250 MHz or higher.</b> The cable shall be supplied in a <b>305-metre pull box/coil,</b> with sequential length markings for easy installation. The outer jacket shall be <b>PVC or LSZH,</b> as specified, and suitable for indoor structured cabling installations. The cable shall support <b>PoE/PoE+/PoE++ (IEEE 802.3af/at/bt)</b> applications and provide low attenuation, near-end crosstalk (NEXT), and return loss performance as per CAT6 standards. The product shall be RoHS compliant and shall carry a <b>minimum 20-year OEM performance warranty.</b></p>	1
38	<b>Miscellaneous cables, connectors</b>	Power, audio, video, control, network, and signal cables	<p>All miscellaneous cables, connectors, adapters, couplers, interface converters, termination accessories, cable management accessories, mounting hardware, and other consumables required for the complete installation, integration, testing, commissioning, and satisfactory operation of the AV system. All cables and connectors shall be of professional grade, compatible with the supplied equipment, and conform to relevant national/international standards. Power, audio, video, control, network, and signal cables shall be of appropriate type, gauge, and length to ensure reliable, loss-free performance. All connectors shall be factory-terminated or professionally terminated, clearly labelled, securely fastened, and suitable for continuous professional use. The bidder shall ensure that no additional accessories are required for successful commissioning of the system, and all supplied items</p>	10

			shall be covered under the same warranty as the respective equipment.	
39	<b>4x1 HDMI Switch</b>	4-input, 1-output HDMI switcher	The HDMI switch shall be a 4-input, 1-output HDMI switcher capable of switching between four HDMI source devices to a single display without signal degradation. The switch shall support HDMI 2.0 or higher, 4K UHD (3840 × 2160) at 60 Hz, 18 Gbps bandwidth, HDR (HDR10 or better), HDCP 2.2 or higher, 3D video, and uncompressed multi-channel digital audio transmission. It shall provide automatic and manual input selection through front-panel push buttons and IR remote control, with LED indicators for input status. The unit shall support plug-and-play operation, EDID management, and stable, lossless signal transmission. It shall be housed in a durable metal enclosure with four HDMI input ports and one HDMI output port, powered through an external DC power adapter, and shall be supplied complete with all required accessories. The equipment shall carry a minimum one-year comprehensive OEM warranty.	3
40	<b>Type C to HDMI Adapter (3-in-1)</b>	3-in-1 USB Type-C multiport adapter providing one HDMI output	<b>3-in-1 USB Type-C multiport adapter providing one HDMI output, one USB 3.0 Type-A port, and one USB Type-C Power Delivery (PD) charging port.</b> It shall support <b>4K UHD (3840 × 2160) resolution at 60 Hz</b> through the HDMI interface and be compatible with laptops, tablets, and smartphones supporting <b>USB Type-C DisplayPort Alternate Mode (DP Alt Mode)</b> . The USB 3.0 port shall support data transfer speeds of <b>up to 5 Gbps</b> , while the USB Type-C PD port shall support <b>pass-through charging of up to 100 W</b> or higher. The adapter shall be plug-and-play, requiring no additional drivers, and shall be compatible with Windows, macOS, Linux, Android, and other USB Type-C enabled devices. It shall feature a durable aluminium or high-quality ABS enclosure with a flexible or reinforced cable and shall be supplied with a <b>minimum one-year comprehensive OEM warranty</b> .	3
41	<b>USB Type-C 13-in-1 Multiport Docking Station</b>	<b>13-in-1 USB Type-C multiport adapter housed in a durable metal enclosure</b>	<b>3-in-1 USB Type-C multiport adapter</b> housed in a durable <b>metal enclosure</b> , designed to expand the connectivity of USB Type-C enabled laptops and tablets. It shall provide <b>minimum one HDMI output supporting 4K UHD (3840 × 2160) at 60 Hz, USB Type-C Power Delivery (PD) pass-through charging up to 100 W, minimum three USB 3.0/3.2 Type-A ports (5 Gbps or higher), Gigabit Ethernet (RJ-45), SD and microSD card readers, 3.5 mm audio combo port,</b> and additional USB Type-C/data ports as required to provide a minimum of <b>13 functional interfaces</b> . The docking station shall support plug-and-play operation, be compatible with Windows, macOS, Linux, and USB Type-C devices supporting <b>DisplayPort Alternate Mode (DP Alt Mode)</b> , and provide stable, simultaneous operation of all ports. The unit	2

			shall include all necessary accessories and shall carry a <b>minimum one-year comprehensive OEM warranty</b>	
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## 2. Technical Specifications

Sl.no.	Item	Technical Specifications
1	4K Tracking PTZ Camera	It Should Have 4K 30X Tracking PTZ Camera incorporates a 1/2.8” CMOS sensor, enabling superior 2160p50/60 UHD video output. It boasts a 30x optical zoom, complemented by a 16x digital zoom and offers multiple output interfaces like 3G-SDI, HDMI and IP streaming. Elevate your remote video production effortlessly with the PTC-325 series—a clear frontrunner for enhanced capabilities.
		The Camera Resolution: 2160p50/59.94/60, Zoom Ratio: 30x Optical Zoom, 16x Digital Zoom, 4K Video interfaces: HDMI, H.264/H.265 Streaming, 2160p and 1080p (3G-SDI) Simultaneous video output, RS-422 Serial Port Control, External audio input: 3.5mm audio in/line in (switchable on the web UI),
		Effective Pixels (approx.) 8.46Mega Pixels, S/N Ratio $\geq 55$ dB, Min. Illumination 0.5 Lux @ (F1.8, AGC ON), Electronic Shutter 1/30s ~ 1/10000s, Effective Zoom Ratio 30x, Gamma Control N/A Iris Control Auto / Manual, Digital Noise Reductions 3D, On-Screen Display (OSD) English/Simplified Chinese/Traditional Chinese, White Balance Auto, Indoor, Outdoor, One Push, Manual, VAR, AGC/Gain Control: Yes HDR/WDR: N/A, Mirror/Flip Image: Yes,
		Focus Mode: Auto/Manual,
		Panning / Tilting Range Pan: 300° Tilt: +90° to -15°
		Panning / Tilting Speed Pan: 0.876°/s~43°/s Tilt: 0.693°/s ~21.32°/s
		Preset :255, Focal Length 30x, f = 4.5mm ~135mm, F1.8 ~ F4.7,
		Field of View (Horizontal, Wide) 62.3° Image Compensation Back light compensation,
		Video Output: HDMI 2.0 x1
		3G-SDI x1
		10/100/1000M RJ45 (PoE) x1
		Audio Input: 3.5 mm x1 (mic in/line in) switch
		from Web UI
		Operating Temp. Range: 0~40 °C
Power: DC 12V 21W		

		Product datasheet should be available on OEM website. Equivalent or Higher
2	Wall mount Bracket For PTZ Camera	it should have Compatible Wall mount bracket with Accessories
3	Streaming Encoder	It Should Have all in one switcher featuring Video Switching, Streaming, Recording, Camera Control and Audio Mixing in one box. It is a UHD 4K 4-input switcher with an integrated 14-inch touch panel.
		The built-in network streaming function allows you to stream videos to all major streaming platforms live. Moreover, the video stream can be recorded to the SD card for backup purpose.
		This Should offers remote control of multiple cameras settings such as pan, tilt, zoom, iris, focus, gain and white balance. It connects up to 3 cameras over a long distance via Ethernet cables
		• Support up to Ultra HD 4K/60 video formats.
		• Large 14" LCD touch screen for switcher operation and video monitoring.
		• Offers remote control of multiple camera settings such as pan, tilt, zoom, iris, focus, shutter, and white balance
		• The built-in H.264 encoder delivers your live video to any major live streaming platforms. 10 • Live streaming of vertically or horizontally oriented videos.
		• A built-in H.264 recorder for video backup on SD cards.
		• Auto up/down scaling of the input resolution • 4 HDMI 2.0 video inputs + 4 HDMI 2.0 video outputs
		• Audio inputs (1 x stereo RCA, 2 x LINE Input)
		• Audio outputs (1 x stereo RCA, 1 x stereo headphone mini jack)
		• Four-channel audio mixer and embedded audio source
		• Wipe, Mix & Simple Cut Transitions
		• Lumakey for title overlay
		• Picture-in-picture and split views
• RS-422, RS-232 and DVIP control		
• Tally output		
		Product datasheet should be available on OEM website. Equivalent or Higher
4	4K HDMI to USB-C Capture Box	It Should Have Plug And Play, Compatible with various operating systems like windows: AMcap, google meet, OBS(open Broadcast software), team viewer, Xsplit boardcaster, zoom,pot player.
		Linux:vlc, obs
		Mac os: OBS, VLC
		Should have stereo line in external audio
		•PC or Notebook Basic Interface Requirements (Recommanded): USB 3.2 Gen 2x1 Type C or Type A; HDMI 2.0
		• Windows Operating System: Windows® 10 x64 or above 1. USB must support UVC protocol, meet 4Kp30 protocol requirements; HDMI must support 4Kp60 HDR
		2. Intel® Core™ i3-8XXX or above
3. NVIDIA® GeForce® GTX 1060 or above		

		<p>4. 16 GB RAM (*dual-channel)</p> <ul style="list-style-type: none"> <li>• Mac Operating System: MacOS High Sierra 10.13 or above</li> </ul> <p>1. USB must support UVC protocol, meet 4Kp30 protocol requirements; HDMI must support 4Kp60 HDR</p> <p>2. iMac:</p> <ol style="list-style-type: none"> <li>3.6GHz Quad-Core Intel Core i7</li> <li>Radeon Pro 555 (2GB of VRAM)</li> <li>16GB 2400MHz DDR4 Memory</li> </ol> <p>3. MacBook Pro:</p> <ol style="list-style-type: none"> <li>2.8GHz Quad-Core Intel Core i7</li> <li>Radeon Pro 555X (2GB GDDR5 Memory)</li> <li>16GB 2400MHz DDR4 Memory</li> </ol> <p>Input: 1x HDMI</p> <p>Output: 1x USB 3.2 Gen (Type-C) 1x HDMI Loop through</p> <p>Audio Input: HDMI Embedded Audio (2-channel) 3.5mm stereo Line input</p> <p>Audio Format: Input: • 16/24 bits, 2-Channels, • 44.1KHz and 48KHz sample rate Output: • up to 24-bit PCM, fixed 48KHz output</p> <p>Power Supply: Via USB Port</p> <p>Power Consumption: Under 4.5W</p> <p>Operation Temperature: 0~40°C</p> <p>Product datasheet should be available on OEM website. Equivalent or Higher.</p>
5	Multi-Camera Controller	<p>It Should Have multi-functional Multi-Camera Controller capable of controlling up to 24 PTZ and block cameras via DVIP or 8 PTZ and block cameras via RS-422. With DVIP and the RS-422 interface.</p> <p>Features</p> <ul style="list-style-type: none"> <li>• Remote Control via RS-422 or DVIP port</li> <li>• Able to control up to 24 Datavideo PTZ/block cameras with 14 presets for each camera</li> <li>• RGB keyboard for easy identification of keyboard functions</li> <li>• User friendly UI on 5" touch screen for easy camera setup</li> <li>• Zoom knob and pan/tilt joystick for adjusting the zoom ratio and lens position</li> <li>• Easy to use and high precision</li> <li>• Can be used with SE-3200 or HDR-80/90(Not available now)</li> <li>• Firmware upgrade via USB 2.0 port</li> </ul> <p>Maximum Camera Control: 24 Datavideo cameras over DVIP, up to 8 Datavideo cameras over serial RS-422.</p> <p>Control Protocol: Sony VISCA, VISCA over IP-S, VISCA over IP-C, Datavideo DVIP</p> <p>Connection to Cameras: RS-422, Ethernet</p> <p>Input/Output: USB 2.0 x2</p>

		-10/100Mbps Ethernet (RJ-45 connector) x1
		-RS-422 (RJ-45 connector) x8
		Build-in Control Panel: Size: 5" Resolution: 1280 x 720
		Firmware Upgrade: USB 2.0
		Power: DC 12V, 19W
		Operating Temp. Range: 0°C ~ 40°C (32°F~104°F)
		Product datasheet should be available on OEM website. Equivalent or Higher.
6	17.3" Full HD Pull out Monitor	It should offers a UHD 3840 x 2160 LCD Panel which provides a wide viewing angle of 178°, 300 cd/m <sup>2</sup> brightness, and 1000:1 contrast ratio. It features a 12G SDI input and two HDMI 2.0 inputs with one loop through output allowing connection of up to DCI 4K and Ultra HD video sources.
		Features
		• DCI 4K/60p and UHD 4K/60p videos for both input and output
		• 17" monitor with UHD 4K (3840 x 2160) LCD display
		• Supports column (YRGB peak), time code, waveform, vector scope & audio level meter, peaking filter, zoom, pix to pix, overscan, check field, etc
		• 12G-SDI video input with loop-through output
		• HDMI 4K input with loop-through output
		• Time Code Display (LTC/VITC)
		• Four user-assignable function keys (F1, F2, F3, and F4)
		• Safety Marker and Aspect Marker
		• 1000:1 contrast ratio, 300 cd/m <sup>2</sup> brightness
		• 178° Horizontal & Vertical wide viewing angle
		• Individual adjustments of Brightness, Contrast, and Saturation.
		• Color Match Conversion with Color Temperature Adjustment
		• Front panel Headphone Jacks
		• Tally light included, Viewing Angle: (H) +89/-89° (V) +89/-89°
		Video Inputs: 1 x 12G SDI
		2 x HDMI (2.0)
		Supported Input Resolutions:-
		SDI:
4096x2160p (23.98/24/25/29.97/30/50/59.94/60) 3840x2160p (23.98/24/25/29.97/30/50/59.94/60) 4096x2160Psf (23.98/24/25/29.97/30) 3840x2160Psf (23.98/24/25/29.97/30) 1920x1080p (23.98/24/25/29.97/30/50/59.94/60) 1920x1080i (50/59.94/60) 1920x1080Psf (23.98/24/25/29.97/30) 1280x720p (23.98/24/25/29.97/30/50/59.94/60)		
525i, 625i		
HDMI:		
4096x2160p (23.98/24/25/29.97/30/50/59.94/60) 3840x2160p (23.98/24/25/29.97/30/50/59.94/60) 1920x1080p (23.98/24/25/29.97/30/50/59.94/60) 1920x1080i (50/59.94/60) 1280x720p (23.98/24/25/29.97/30/50/59.94/60) 720 x480i (NTSC), 720 x576i (PAL) 640 x800, 800 x600, 1024 x768, 1280 x800		

		Aspect Ratio: 16:9, 4:3
		Aspect Marker: Yes
		Safty Marker: Yes
		Audio In/Out: Input: Embedded Audio (48KHz sampling) Output: Analog stereo (Phone Jack) Speaker x 2 (3W)
		Power: DC 12V, 40.1W
		Operating Temp. Range: 0~40 °C
		Product datasheet should be available on OEM website. Equivalent or Higher.
7	4K SDI to HDMI 2.0 Converter	It should converts 12G-SDi in resolutions upto 4K50/60 to 4K HDMI, It should easily connect the 4K HDMI signal devices and professional 12G-SDI Video equipment. With SDI input and both SDI and HDMI outputs, audio is de-embedded from the SDI input and delivered through HDMI and analog audio outputs Features <ul style="list-style-type: none"> <li>• Supports up to DCI 4K (4096 x 2160) and UHD 4K (3840 x 2160)</li> <li>• 12G-SDI input and loop-thru output</li> <li>• Supports HDMI 2.0 to 18 Gbps Video bandwidth • Supports Re-Clocking</li> <li>• Provides an Additional 2-Channel RCA Analog Audio Output</li> <li>• Supports Automatic Input Signal Detection</li> <li>• Supports HDMI Deep Color function.</li> <li>• Aluminum design for a rugged and durable build.</li> </ul> Conversion: 12G-SDI to HDMI 2.0 Loop Through: 1 Video Outputs: 1x HDMI 2.0 with embedded Audio Audio Inputs: SDI embedded audio, 24-bit, 16-channel Audio Outputs: RCA x 2 (Unbalanced Audio L/R) HDMI embedded audio, 24-bit, 8-Channel Output Resolutions: Automatically matches the HD, 3G and 12G SDI video input Supported Video Input Formats: 4096x2160p: 60/59.94/50/30/29.97/25/24/23.98 3840x2160p: 60/59.94/50/30/29.97/25/24/23.98 1080p: 60/59.94/50/30/29.97/25/24/23.98 1080i: 60/59.94/50 720p: 60/59.94/50 Equalizer: Yes Reclock: Yes SDI Cable Drive : Yes Updates and Configuration: USB Type C x 1 Power: DC 12V, 8.64W

		Operating Temp. Range: 0~40 °C
		Product datasheet should be available on OEM website. Equivalent or Higher
8	Prores 4K Video Recorder	It should designed for a multi camera production environment, Easy post edit and playback. The recorder is able to record video in resolutions upto 2160p 60 using the available SDI and HDMI interfaces at the back. SDI available in bitrates all the way from HD upto 12G-SDI while HDMI connections support both HDMI 2.0 and 1.4 technology. With multiple HDMI and SDI inputs you can also record upto four 1080p sources at the same time. Dual SSD drives ensure sufficient storage for long duration recording. As one desk fills up the recording automatically continue on the next desk, its easy to expand video storage by swapping a single desk.
		Video Standard: UHD & HD
		Video Format: 2160p 23.98/24/25/29.97/30/50/59.94/60Hz 1080p 23.98/24/25/29.97/50/59.94/60Hz 1080i 50/59.94/60Hz 720p 50/59.94/60Hz
		Supported Video Input Signal: 1x 3G/12G-SDI
		3x 3G-SDI
		1x HDMI 2.0
		1x HDMI 1.4
		Video Output: 1x 3G/12G-SDI
		1x HDMI 2.0
		3x HDMI 1.4
		Analog Audio Input: 2x Balanced XLR
		Analog Audio Output: 2x Balanced XLR
		Embedded Audio: SDI Input / Output (8CH )
		HDMI Input / Output (8CH)
		Storage Medium: 2.5" SSD
		Multi-channel Recording: Yes, 4-CH HD
		Recording Media: 2x 2.5" Removable SSD
		Storage File System: exFAT
		Recorded File Format: QuickTime .MOV
		Video Recording Bit Rate
		/ Color Sampling: ProRes 422 HQ
		ProRes 422
		ProRes 422 LT
		ProRes 422 Proxy
		Preview Display: 5" Touch LCD
		Time Code In / Out: Yes
External Sync / Genlock: Black Burst & Tri-level		
with loop thru		
External Control: RS-232/422 (Dsub 9pin),		
DVIP (Ethernet),		
GPI (3.5Ø phone jack)		

		Operating Temp. Range: 0~40 °C
		Power: DC 12V, 3A
		Product datasheet should be available on OEM website. Equivalent or Higher.
9	Digital Display	It should have 75" display size
		It should have resolution 3840 × 2160 (4K UHD)
		It should have aspect ratio 16:9
		It should have brightness 400nits
		It should have operating systems Android 14 Smart Signage Platform
		It should have RAM: 2GB, storage: 16GB,
		It should have HDMI Inputs: 3 × HDMI 2.1, USB Ports: 2 × USB 2.0, LAN: RJ45 Ethernet
		It should have audio output: 10w+10w speakers
		<b>It should have Connectivity Features:</b>
		Built-in Google TV / Android platform, Chromecast, Dolby Audio
		Wireless screen casting from phones and laptops
		Google Meet compatibility
		HDR10 support
		Bluetooth connectivity
		Ethernet and Wi-Fi networking support
		<b>Product datasheet should be available on OEM website. Equivalent or Higher.</b>
10	Interactive flat panel	It should have Size: <b>75 inches (190.5 cm), White Board Software</b>
		It should have Resolution: <b>3840 × 2160 (4K UHD)</b>
		It should have Brightness: <b>450 nits</b>
		It should have Contrast Ratio: <b>5000:1</b>
		It should have Touch Technology: <b>40-point multi-touch</b>
		It should have Operating System: <b>Android 13</b>
		It should have Memory: <b>4 GB /8GB RAM</b>
		It should have Storage: <b>32 GB ROM/64 GB ROM</b>
		It should have 40 touch points, 2 pens
		It should have Built-in Wi-Fi and Bluetooth, whiteboard application
		Multi-OS wireless screen sharing for up to 9 devices simultaneously
		<b>It should have Collaboration Features:</b>
		Wireless casting from Windows, Android, macOS, and other platforms
		Interactive annotation and whiteboarding
		<b>It should have connectivity:</b>
		HDMI In × 3
		HDMI Out × 1
		USB Type-C × 2
		USB 3.0 × 3

		USB 3.0 × 2
		DisplayPort In × 1
		VGA × 1
		Audio In × 1
		Audio Out × 1
		SPDIF × 1
		RJ45 LAN × 1
		RS232 × 1
		TF Card Slot × 1
		Product datasheet should be available on OEM website. Equivalent or Higher.
11	Pen display (Display touch panel)	It should have Display Size: 24 inches
		It should have Screen dimensions 23.8" diagonal (20,75 x 11.65 inches / 527 x 296 mm)
		It should have Resolution 1920 × 1080 (Full HD)
		It should have Panel Type: IPS LCD
		It should have Brightness: 210 cd/m <sup>2</sup>
		It should have Contrast Ratio:1000:1
		It should have Viewing Angle: 178° / 178°
		It should have Color Depth16.7 million colors (8-bit)
		It should have Response Time: 22–25 ms
		It should have Pen: Pro Pen 2
		It should have Tilt Support: ±60°
		It should have Pen Resolution: 5080 lpi
		It should have Pen Technology: Electromagnetic Resonance (EMR)
		It should have Pressure levels : 2048
		It should have Connectivity: HDMI, USB 2.0
		Product datasheet should be available on OEM website. Equivalent or Higher.
12	Wireless lavalier microphone	Wireless Lavalier Microphone System
		Frequency Range: 548–572 MHz
		Wireless Technology: Analog UHF
		Microphone should be Omnidirectional Lavalier
		Receiver Type: True Diversity Rack/Tabletop Receiver
		Operating Range: Up to 100 m
		Audio Frequency Response: 50 Hz – 16 kHz
		Signal-to-Noise Ratio: ≥ 103 dB(A)
		THD: ≤ 0.9%
		Battery Type: 2 × AA batteries
		Battery Life: Approx. 10 hours
		Receiver Outputs: Balanced XLR, Unbalanced 6.3 mm (1/4") Jack

		<p><b>It should have Features:</b></p> <p>True-diversity reception for improved RF reliability</p> <p>Fully tunable UHF operation</p> <p>LCD display for manual frequency management</p> <p>Rack-mountable receiver</p> <p>Omnidirectional lavalier microphone for hands-free presentations</p>
13	Wireless Microphone with external Antenna including rackmount kit	Wireless handheld system; e835 dynamic cardioid capsule; UHF; up to 12 channels; 50Hz–16kHz response.
14	12+2 analog mixer	12 Mono+2 Stereo channel analog mixer; GB30 mic preamps; 3-band EQ with swept mid; 2 aux sends; phantom power.
15	8 inch speakers	<p>8-inch powered loudspeaker;</p> <p>LF Transducer: 203 mm (8 in) , cone</p> <p>HF Transducer: 35.6 mm (1.4 in) compression driver</p> <p>Frequency Response (-6 dB) 56 - 20 kHz</p> <p>Frequency Range (-10 dB) 53 - 20 kHz</p> <p>Nominal Coverage Angle: 90° Axisymmetric</p> <p>Maximum Rated SPL1: 124 dB</p> <p>Amplifier: Class D</p> <p>Peak: 800 W (LF), 200 W (HF)</p>
16	12 inch subwoofer	<p>12-inch active subwoofer;</p> <p>LF Transducer 305 mm (12 in), Cone</p> <p>Frequency Response (-6 dB) 41 Hz - 108 Hz</p> <p>Frequency Range (-10 dB) 38 Hz - 121 Hz</p> <p>Maximum Rated SPL1 128 dB @ 1 m (peak)</p> <p>Amplifier Class D</p> <p>2000W (peak)</p>
17	4.5 inch Surface Speakers	4.5-inch surface mount speaker; 70/100V transformer; 30W program power.
18	Micro format DSP	1RU DSP; 8x4 USB AEC audio processing; Dante/USB options; conferencing DSP.
19	4 channel Amplifier	4-channel amplifier; 100W/channel; low impedance and 70/100V support.
20	Headphones	Closed-back headphones; 32Ω; 16Hz–20kHz response.
21	100W LED soft panel	LED soft panel light; DMX control; adjustable color temperature. 120 degree wide beam spread, burning life atleast 50000 hours
22	DMX Controller	DMX lighting controller; scene/chase programming; multiple fixture control.
23	Gooseneck Microphone	18-inch desktop gooseneck microphone; cardioid; integrated desktop base.
24	Wireless All in One Microphone (2 Mics and 1 Receiver set)	2.4GHz wireless microphone system; onboard recording; noise reduction.

25	Concept 90-inch Tripod	230cm aluminum tripod; fluid head; video/photo use.
26	74-inch Pro Video Tripod	188cm tripod; fluid drag head; quick-release plate.
27	4K professional camcorder with two additional batteries	4K 60p/50p 10bit recording, 24.5mm wide-angle, optical 20x zoom, and HD live streaming capabilities
28	Mirror less camera Video/Photo additional batteries 2	33MP full-frame mirrorless camera; 4K60 video; E-mount.
29	Lens 24-70 mm G master	Full-frame standard zoom lens; constant F2.8 aperture; E-mount.
30	Memory card 160 GB Type -A/ Tough Series	Type A card; up to 900 Mb/s read speed, write speed of 700Mb/s
31	2 in 2 CF Express Type A & SDXC, USB 3.2 & 3.0 Card Reader, Support SD/SDHC/SDXC/UHS-I/UHS II Cards, Support Mac OS, iPad OS, Window, Android, Linux & Harmony	Dual-slot CFexpress Type B/SDXC card reader; USB 3.2.
32	Memory card 128 GB Type -A	128GB microSDXC card; endurance-rated for continuous video recording.
33	Custom ceiling bars	Ceiling bars to hang the lights in the studio
34	Aten HDMI Extenders	HDMI over CAT6/CAT6A transmission system capable of extending uncompressed Full HD (1920 × 1080 @ 60 Hz) signals over a single CAT6/CAT6A cable for a minimum distance of 100 metres, or 4K UHD (3840 × 2160 @ 30 Hz or better) for a minimum distance of 70 metres. The extender shall support HDCP compliance, EDID management, lossless audio transmission, and low-latency signal delivery. It shall provide HDMI input and output interfaces, support plug-and-play operation, and include LED indicators for power and link status.
35	HDMI AOC Cable 20mts	<b>20-metre Active Optical HDMI (AOC) cable</b> designed for professional AV applications, supporting <b>HDMI 2.0 or higher</b> with a maximum resolution of <b>4K UHD (3840 × 2160)</b>
36	HDMI Cable 4mts	<b>HDMI 2.0 or higher</b> supporting <b>4K UHD (3840 × 2160) at 60 Hz</b>
37	CAT6 Cable coil of 305mts	<b>Category 6 (CAT6) Unshielded Twisted Pair (UTP)</b> solid copper LAN cable conforming to <b>ANSI/TIA-568.2-D, ISO/IEC 11801, and IEEE 802.3</b> standards or equivalent
38	Miscellaneous cables, connectors	Power, audio, video, control, network, and signal cables

39	HDMI Switch 4 in 1 Out 4K 60hz HDMI Switcher 2 Port, Bi-Directional HDMI Switch Splitter 2 x 1/1 x 2, No Power Required, Sharing HD Video	4-input, 1-output HDMI switcher
40	Type C to HDMI Adapter (3-in-1),	3-in-1 USB Type-C multiport adapter providing one HDMI output
14	Multiport Vault 13-in-1 USB-C Metal Docking Station, 100W PD Charging, 4K@30Hz HDMI, 1080P VGA, 4× USB 3.0, Gigabit Ethernet, SD/microSD 3.0, USB-C 3.0 & 2.0, 3.5mm Aux, for Windows & macOS	13-in-1 USB Type-C multiport adapter housed in a durable metal enclosure

**3) Qualification/Eligibility Criteria:**

**1. Bidder Eligibility**

The bidder shall be either:

- The Original Equipment Manufacturer (OEM); or
- An authorized dealer, distributor, or partner of the OEM. A valid authorization certificate from the OEM shall be submitted along with the bid.

**2. Similar Work Experience**

The bidder should have successfully completed similar works during the last seven (7) years, meeting any one of the following criteria:

- Three (3) similar completed works, each costing not less than 40% of the estimated tender value; or
- Two (2) similar completed works, each costing not less than 50% of the estimated tender value; or
- One (1) similar completed work costing not less than 80% of the estimated tender value.

For the purpose of this tender, **Similar Work** shall include any of the following:

- AV System Integration

- Hybrid Classroom Setup
- Broadcast Studio Setup
- Convention Centre AV Installation
- Video Conferencing Infrastructure
- Digital Learning Studio Setup

The bidder shall submit copies of work orders or corresponding completion certificates as documentary evidence.

### 3. Experience in AV Integration

The bidder shall have a minimum of three (3) years of experience in Audio-Visual (AV) System Integration.

### 4. Financial Capacity

The bidder shall have an average annual turnover of not less than **₹23 Lakhs** during the last three (3) financial years.

### 5. Service Support Requirements

The bidder shall ensure comprehensive onsite technical support during the warranty period and shall attend to complaints within twenty-four (24) hours from the time of reporting.

For this purpose, the bidder shall either:

- Have its own office/service centre; or
- Make suitable arrangements to meet the stipulated response time.

### 6. Demonstration of Proposed Solution

The Purchaser reserves the right to call technically qualified bidders to demonstrate the proposed solution solely for verification of compliance with the tender specifications.

Failure to demonstrate conformity with the essential technical specifications may render the bid technically non-responsive.

### 7. Warranty and Product Support

The bidder shall provide:

- a. A minimum of five (5) years comprehensive onsite warranty for all supplied equipment and services.

- b. An OEM-backed warranty certificate confirming the warranty commitment.
- c. An undertaking regarding the availability of spare parts for a minimum period of five (5) years from the date of installation.

## 8. Declaration Regarding Blacklisting

The bidder shall submit a self-declaration on its letterhead stating that it has not been blacklisted, debarred, or banned by any Central Government Department, State Government Department, Public Sector Undertaking, Autonomous Body, or any other Government organization in India as on the date of bid submission.

## 9. Completion Certificate

The bidder shall submit successful completion certificates issued by the respective clients, clearly indicating:

- Name and nature of the work executed;
- Contract value of the work; and
- Date of completion.

The completion certificates shall be considered as proof of satisfactory execution of similar works.

### **For any technical query related to enquiry, you may contact**

Prof. Amirtham Rajgopal, Chair CCE, Email: [chair.cce@iith.ac.in](mailto:chair.cce@iith.ac.in).

Mr. Dasarath, Assistant Section Officer, CCE, Email: [dasharath.sandolla@admin.iith.ac.in](mailto:dasharath.sandolla@admin.iith.ac.in).

### **For Commercial query:**

Mr. M Venkatesh – Senior Assistant Registrar, Email: [ar.purchase@iith.ac.in](mailto:ar.purchase@iith.ac.in)

Mr. Ramesh Kumar - Assistant Registrar Email: [ar.stores@iith.ac.in](mailto:ar.stores@iith.ac.in)

Ms. D Chanchala Devi– Joint Registrar, Email: [hos.snp@iith.ac.in](mailto:hos.snp@iith.ac.in)

With CC: [office.stores@iith.ac.in](mailto:office.stores@iith.ac.in)

## TERMS AND CONDITIONS

1. **Delivery period:** Material should be delivered and installed within **1 month** from the date of issue of the purchase order. The delivery period offered has to be strictly adhered to in case an order is placed.
2. **Payment:** - **No advance payments are allowed under any circumstances.** 100% payment will be made against Delivery, Installation, Commissioning, Training & acceptance by IIT Hyderabad and submission of **Performance Bank Guarantee** for the value of 5% of the order value, valid for a period of **warranty period plus 60 days.**
3. **Earnest Money Deposit (EMD):**
  - i. The tender documents must be accompanied by an Earnest Money Deposit (EMD) of **Rs. 90,000/-** in the form of **Account Transfer/Demand Draft/Bank guarantee from any commercial bank on any Scheduled/Nationalized Bank in favor of the Director, Indian Institute of Technology Hyderabad.**
  - ii. **The original document in case of EMD (other than MSME/NSIC) should be posted/couriered/given in person to the Stores & Purchase Section of IIT Hyderabad on or before the opening of Technical Bid. In case of non-receipt of original document before the due date of opening of technical bid, the uploaded bid will be summarily rejected.**

**For Online Payment of EMD /& Tender Fees:** The EMD/Tender Fees can also be paid online, the bank details are as follows:

Canara Bank Account Details	
Name of the Bank	Canara bank
Branch Name & Bank Code	IIT KANDI & 3458
Account Number	110171129768
Pan No. of the institute	AAAAL2661J
GST no. of the institute	36AAAAL2661J1ZP
Bank Branch IFSC code	CNRB0003458
Bank Branch MICR code	500015066
SWIFT:	CNRBINBBBFD

**The Online payment proof needs to be uploaded along with the Technical Bid.  
The firm registered with NSIC/MSME/Udyam Adhaar must give proof of registration along with their quotation failing which the bid will not be considered.**

Exemption from submission of EMD/Tender Fees against valid and relevant NSIC /MSME Certification is permitted, however it shall be subject to scrutiny by the IITH and if during scrutiny, it is found that the NSIC Certificate is invalid and/or irrelevant, then that bid is liable to be rejected as “not-accompanying EMD”. Therefore, Bidders claiming exemption from EMD/Bid Securing Declaration against NSIC certificate, should ensure the same carefully, while submission of their bids.

**Note:** If in the view of bidder, any exemption / relaxation is applicable to them from any of the eligibility requirements, under any Rules / Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/Guidelines/ Directives with a copy of such notification. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of their claim. The relevant and valid certificates in support of claim of exemption must be submitted along with the Technical Bid.

- i) The BIDDER who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote or submit Proforma invoice of their principals for this tender.
- ii) The successful BIDDER, on award of contract / order, must send the contract / order acceptance in writing, within 15 days of award of contract.
- iii) Bids submitted without Bid Securing Declaration / relevant MSME/NSIC Certificates will be rejected & no correspondence in this regard shall be entertained.
- iv) These exemptions /relaxations are meant for procurement of only goods produced and services rendered by MSEs. Traders/ distributors/ sole agent/ Works Contract are excluded from the purview of the policy.

This Bid is also governed by the latest General terms and conditions as per GeM.

#### **4. Bid Opening and Evaluation Process:**

- a. Technical Bids will be opened as per the Date Schedule & Time.
- b. Financial Bids/Commercial Bids of the eligible bidders will be opened at a later date. The date and time for opening of Financial Bids /Commercial will be announced later.
- c. Bids would be summarily rejected if the tender is submitted other than through an online portal. The Bid is to be submitted within the stipulated date / time.

### Technical Committee

(i) On the due date the Technical bids will be opened and referred to a duly constituted technical committee which is duly constituted. The committee will go through the technical aspects of the tender and recommend short listed firms. The recommendation of the technical committee is the final and binding on all the parties.

(ii) The technical evaluation will be an assessment of the Technical Bid. IIT Hyd representatives will proceed through a detailed evaluation of the Technical Bids as defined in Annexure - A (Schedule of requirements, specifications and allied technical details), in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IIT Hyd will examine the information supplied by the BIDDERS, and shall evaluate the same as per the specifications mentioned in this tender.

(iii) The technical committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IIT Hyd and these criteria/recommendation will also form as a part of short-listing of the firms.

(iv) The Technical Committee will examine all the Technical aspects of the bids received. Further, the Technical Committee may seek additional information from the existing users at IIT Hyd or from other Institutes, these feedbacks will be considered for technical evaluation, the bidders will also be called for technical presentations if it is required so. The bidder will have to provide the details/any additional documents as and when sought by the Technical committee.

(v) The information received and the bids already submitted together will be examined with reference to the tendered specifications and evaluation is made by the Technical Committee.

(vi) After the technical evaluation is completed and approved, IIT Hyd shall inform to the BIDDERS whose bids have been rejected technically with the reasons for rejection.

(vii) The successful BIDDERS will be informed regarding the date and time of Commercial bid opening.

(viii) In the event of seeking any clarification from various BIDDERS by IIT Hyd , the BIDDERS are required to furnish only technical clarifications that are asked for. No amendment to commercial bid will be entertained at that stage. In case if a BIDDER fails to quote for a particular item it amounts to non-compliance and hence such bid will not be considered for further evaluation. Further during this process if any BIDDER indicates the price during the clarification such bids also will not be considered for further evaluation.

**5. The Director, IIT Hyd reserves the right to accept the offer in full or in parts or reject summarily or partly.**

## 6. Bid Validity Period:

- a. The prices must be valid at least for a period of **90 days** from the date of opening of the Tender. No changes in prices will be acceptable in any condition after opening of tender till the validity of the offer or execution of the order whichever is later
- b. IIT Hyd may ask for the BIDDER's consent to extend the period of validity. Such request and the response shall be made in writing only. The BIDDER is free not to accept such request. A BIDDER agreeing to the request for extension will not be permitted to modify his bid.
- c. Bid evaluation will be based on the bid prices without taking into consideration the above corrections

## 7. AWARD OF CONTRACT:

- a. IIT Hyd, shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.
- b. If more than one BIDDER happens to quote the same lowest price, IIT Hyd reserves the right to award the contract to more than one BIDDER or any BIDDER.

## 8. IIT Hyd reserves the right to vary quantities at the time of Award:

- a. IIT Hyd reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the tender document without any change in unit price or other terms and conditions. Further, at the discretion of IIT Hyd, the quantities in the contract may be enhanced by 25% within the delivery period.
- b. Firms which have already supplied similar equipment to IIT Hyd and have not completed required installation/commissioning/after sales service/warranty replacements etc. such firms offer will not be considered for further evaluation and no enquiries thereafter will be entertained.

## 9. Fraud and Corruption:

IIT Hyd requires that bidders, suppliers, contractors and consultants, if any, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy,

(a) The terms set forth below are defined as follows:

- (i) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or in directly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
- (ii) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;

(iii) “Collusive practice” means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, non -competitive levels; and

(iv) Coercive practice” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract

- (b) IIT Hyd will reject a proposal for award if it determines that Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent collusive or coercive practices in competing for the Contract in question

#### 10. Interpretation of the clauses in the Tender Document / Contract Document

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, Director, IIT Hyd’s interpretation of the clauses shall be final and binding on all parties.

#### 11. Security Deposit:

a. Within fifteen (15) days of the award of contract, the vendor shall furnish a Security Deposit/PBG amounting to **5%** of the purchase order value in the form of Insurance Surety Bonds, Account Payee, Demand Draft, Fixed Deposit Receipt, Banker’s Cheque or Bank guarantee from any commercial Banks or payment online of a scheduled bank in the name of Director, IIT Hyd favouring the Director, IIT Hyd.

b. The Security Deposit will be encashed/claimed if the vendor fails to execute the order as per the Purchase Order.

**c. The Security Deposit should be valid for a period of 05 Year warranty + 60 days, as the same will extend the same as Performance Bank Guarantee. Hence while preparing the BG, the time required for delivery and installation and warranty + 60 days needs to be accounted for to cover the BG validity period.**

**d) This Security Deposit will be refunded to the vendor only on satisfactory completion of all contractual including warranty obligations as per this Tender and Purchase Order issued against this Tender.**

**e) Bank Guarantee wherever mentioned in this document may be read as “Bank Guarantee from any Scheduled Bank” only. The Bank Guarantee should be submitted in Hard Copy to IITH and the issuing Bank should send the IFN 760 COV Bank Guarantee Advice Messages to our bankers through SFMS (Structured Finance Messaging System). Our Bank details are as follows:**

<b>Canara Bank Account Details</b>	
<b>Name of the Bank</b>	<b>Canara bank</b>
<b>Branch Name &amp; Bank Code</b>	<b>IIT KANDI &amp; 3458</b>
<b>Account Number</b>	<b>110171129768</b>
<b>Pan No. of the institute</b>	<b>AAAAI2661J</b>
<b>GST no. of the institute</b>	<b>36AAAAI2661J1ZP</b>
<b>Bank Branch IFSC code</b>	<b>CNRB0003458</b>
<b>Bank Branch MICR code</b>	<b>500015066</b>
<b>SWIFT:</b>	<b>CNRBINBBBFD</b>

**12. Pre-installation:** The BIDDER must state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests. i.e. pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in IIT Hyd the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipment. The BIDDER should continuously monitor the pre-installation requirements and see that everything is ready before the consignment is taken to the site for installation.

**13. Installation:**

- a) BIDDER shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.
- b) Installation demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site, unless otherwise instructed by the Institute
- c) After successful installation what will be the minimum down time of equipment/instrument in case of breakdown. If the identified firm or person fails to put the system into working condition what is the further alternative course of action suggested to adhere to minimum down time should be covered in the Technical Bid.

**14. Inspection:**

- a) The inspection of the system will be done by our technical expert /Scientist in the presence of firm's representative.
- b) In case of receipt of the material in short supply or damaged condition the supplier will have to arrange the supplies/ replacement of goods free of cost pending the settlement of the insurance case wherever applicable on FOR at the IIT Hyd.

**15. Training:** Wherever needed, Scientist/Technical persons of the Institute should be trained by the supplier at the project site free of cost. In case the person is to be trained at supplier's site abroad or in India it should be mentioned in the quotation clearly. The supplier should bear all the expenses for such training including 'to & fro' fares and lodging & boarding charges.

**16. Warranty / Support:**

- a) The items covered by the schedule of requirement shall carry minimum **05 Years** warranty from the date of acceptance of the equipment by IIT Hyd. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The comprehensive warranty includes onsite warranty with parts.
- b) The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, local taxes if any should be borne by the beneficiary or his agent. No cost will be borne by IIT Hyd.
- c) The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.
- d) The Bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.
- e) The equipment must be supported by a Service Centre in India manned by the technical support engineers. Also it should be possible to contact the Principal's vendor support Centre on a toll free number/web/mail. The support through this Centre must be available during all working days and hours.
- f) The manufacturer/OEM is should facilitate the bidder/Agent on regular basis with technology / product updates & extend support for the warranty as well.
- g) The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

- h) The principal vendor must have a local logistics support by maintaining a spares in the country of deployment of the equipment, with the Indian Agent. This is to ensure immediate delivery of spares parts from Principal Vendor of equipment to its channel partner/system integrator.
- i) Details of the agency who shall maintain during warranty and undertake Annual Maintenance Contract/Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign quote, the Indian Agent who shall maintain during warranty and AMC beyond warranty shall be given in the Technical Offer
- j) **Commencement of Warranty Period:** The warranty period of an item shall commence from the date of successful installation, commissioning and demonstration & Training at IIT Hyd. The warranty period and validity of Performance Guarantee shall be extended for the period of delay in satisfactory installation and delay in warranty services.
17. **Reasonability of Prices:** The prices quoted must be the prices applicable for a premiere Educational and Research Institute of national importance. The bidder must give details of identical or similar equipment, if any, supplied to other IITs/ IISERS/ CSIR lab/ CFTI's during last three years along with the final price paid and Performance certificate from them.
18. **Annual Maintenance Contract:** The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period. This is mandatory to mention, wherever applicable. No sub-contracting will be allowed for installation or maintaining system/ equipment / instrument during or after warranty period.
19. **Indemnity:** The vendor shall indemnify, protect and save IIT Hyd against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by the bidder/OEM.
20. **Freight & Insurance:** The equipment'/items to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at IIT Hyd site
21. **Amalgamation/Acquisition etc.:** In the event the Manufacturer/Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the BUYER/Successor of the Principal Company are liable for execution of the contract and also fulfilment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. while submitting your bid, you may confirm this condition.
22. **Liquidity Damage for delayed Services**
- i) As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to, failing which, IIT Hyd encash/claim the Security Deposit and also LD clause will be applicable /enforced.

ii) If the supplier fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 0.5 % of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.

iii) IIT Hyd reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.

**23. Requirement of registration:** Vide Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

- a. Any bidder from a country sharing a land border with India will be eligible to bid in this tender only if the bidder is registered with the Department for Promotion of Industry and Internal Trade (DPIIT).
- b. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- c. "Bidder from a country which shares a land border with India" for the purpose of this Order means:
  - i. An entity incorporated, established or registered in such a country; or
  - ii. A subsidiary of an entity incorporated, established or registered in such a country; or
  - iii. An entity substantially controlled through entities incorporated, established or registered in such a country; or
  - iv. An entity whose beneficial owner is situated in such a country; or
  - v. An Indian (or other) agent of such an entity; or
  - vi. A natural person who is a citizen of such a country; or
  - vii. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above
- ii. For details about registration procedures please visit the above mentioned OM. Mandatory documentary evidence regarding the bidder's registration with DPIIT is to be submitted along with the tender, failing which the tender shall be liable for rejection. Bidders are also requested to submit the Model Certificates as **per Annexure** for this tender as mentioned in the Ministry of Finance OM No. 6/18/2019-PPD dated 23rd July 2020.

## 24. Public Procurement (Preference to Make in India), Order 2017:

- i. IIT Hyd shall compare all substantially responsive bids to determine the lowest valued bid. This Institute is following and abide with the Public Procurement (Preference to Make in India), Order 2017, DIPP, MoCI Order No. P-45021/2/2017-B.E. II dated 15th June 2017 and its subsequent amendments. Accordingly, preference will be given to the Make in India products while evaluating the bids, however, it is the sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India product along with respective documentary evidence as stipulated in the aforesaid order in the technical bid itself.
- ii. As per the above order and its subsequent amendments “Local Content” means the amount of value added in India which shall be value of the item procured (excluding net domestic indirect taxes) minus the value of the imported content in the item (including all the custom duties) as a proportion of the total value, in percent. Accordingly, the suppliers will be classified in following categories.

1. **Class I local Supplier – has local content minimum 50%**
2. **Class II local Supplier – has local content minimum 20%**

- b. **Verification of Local Content:** The Class I Local Supplier /Class II Local Supplier at the time of bidding shall be required to indicate the percentage of local content and provide self-certification as per **Annexure that** the items offered meet the local content requirement. The details of the location(s) at which the local value addition is made also needs to be specified.

**The bidders can be debarred for a period up to two years as, per Rule 151(iii) of GFR 2017, in case of false declaration.**

### **Complaint Redressal Mechanism:**

In case any complaint received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/domestic value addition in a product, the same shall be referred to competent authority at IITH or the relevant Ministry.

The bidder against whom the complaint is received shall be required to furnish the necessary documentation in support of the domestic value addition claimed in the product to authority. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim

A complaint fee of Rs. 2 lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs.5 lakh), whichever is higher, to be paid by Demand Draft

to be deposited with Procuring Institute. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

False declarations will be in breach of the Code of Integrity under Rule 175 (1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

**25. Note for MSME/NSIC/Start up Bidder:** If in the view of bidder, any exemption / relaxation is applicable to them from any of the eligibility requirements, under any Rules / Guidelines/ Directives of Government of India, bidder may submit their claim for the applicable exemption /relaxation, quoting the valid Rule/Guidelines/ Directives with a copy of such notification. In this case the bidder must submit necessary and sufficient documents along with the technical bid, in support of their claim. The relevant and valid certificates in support of claim of exemption must be submitted along with the Technical Bid.

**These exemptions /relaxations are meant for procurement of only goods produced and services rendered by MSEs. Traders/ distributors/ sole agent/ Works Contract are excluded from the purview of the policy.**

**This Bid is also governed by latest General terms and conditions as per GeM**

**26. Force Majeure:** IIT Hyd may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises.

**27. Dispute Settlement:**

IIT Hyd and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

If, after twenty-one (21) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the IIT Hyd or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration.

Arbitration may be commenced prior to or after delivery of the Goods under the Contract. The dispute settlement mechanism/arbitration proceedings shall be concluded as under:

- (a) In case of Dispute or difference arising between the IIT Hyd and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Director IIT Hyd, if he is unable/ unwilling to act, to the sole arbitration of some other person appointed by his willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.
  - (b) In the case of a dispute between the Purchase and a Foreign supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The venue of the arbitration shall be the place from where the purchase order or contract is issued.
28. **Jurisdiction:** The disputes, legal matters, court matters, if any, shall be subject to Hyderabad Jurisdiction only.
29. The Director, IIT Hyd reserves the right to accept the offer in full or in parts or reject summarily or partly and also reserves the right to cancel the tender at any stage without assigning reasons.

## Checklist for BIDDERS

BIDDERS to indicate whether the following are enclosed/mentioned by striking out the non-relevant option

Sl. No.	Content	File Types	Document Attached
1	FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS- Annexure- B	.PDF	( Yes /No )
2	UNPRICED TECHNICAL BID – Annexure-‘C’	.PDF	( Yes /No )
3	MANUFACTURER’S AUTHORIZATION & WARRANTY SUPPORT DECLARATION – Annexure D	.PDF	( Yes /No )
4	Declaration for Local Content from OEMs Letter Head – ANNEXURE – E	.PDF	( Yes /No )
5	CERTIFICATE BY BIDDER- DPIIT REGISTRATION- ANNEXURE –F	.PDF	( Yes /No )
6	DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION - ANNEXURE G	.PDF	( Yes /No )
7	Bidder Information form as per Annexure-‘H’	.PDF	( Yes /No )
8	PREVIOUS SUPPLY ORDER LIST FORMAT - ANNEXURE I	.PDF	( Yes /No )
9	ACCEPTANCE OF TENDER TERMS (To be given on Company Letter Head) - ANNEXURE – J	.PDF	( Yes /No )

ANNEXURE -B

FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS

1	2	3	4	5	6
S. N.	Name of specifications/part / Accessories of tender enquiry  As per Annexure A of the Tender Document.	Specifications of quoted Model/ Item	Compliance  Whether “YES” Or “NO”	Deviation, if any, to be indicated in unambiguous terms	Whether the compliance / deviation is clearly mentioned in technical leaflet/ literature
1					
2					
3					
n					

**NOTE: The bidder should also submit the Brochure with technical details of the product supporting the compliance statement.**

ANNEXURE - C

**UNPRICED TECHNICAL BID**  
**(Bidder should provide the following details on Letter head)**

Quotation No :

Date:

Name of the Bidder \_\_\_\_\_  
 No. \_\_\_\_\_

GeM bid

Sr.No	Item Description	Country of Origin	Make & Model	HSN Code	GST %	Qty
1						
2						
3						
n						

**Other Terms & Conditions**

1	Payment terms	:
2	Delivery Period from the date of Issue of PO	:
3	Warranty	:
4	Any other additional terms	:

MANUFACTURER’S AUTHORIZATION & WARRANTY SUPPORT DECLARATION

( ON OEMs Letter head)

Date:

Tender No / GeM bid no:

To  
The Director,  
Indian Institute of Technology Hyderabad,  
Kandi, Hyderabad – 502 284

We, \_\_\_\_\_ [name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer’s factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee, warranty, availability of spare parts and AMC support in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Authorized representative of the Manufacturer

Authorized representative Bidder

Signature:

Signature:

Name:

Name:

Address:

Address:

Mobile No:

Mobile No:

Email ID:

Email ID:

ANNEXURE E

**Declaration for Local Content (on OEM's Letter Head)**

(To be given on Company Letter Head - For tender value below Rs.10 Crores)

(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 Crores)

Date: \_\_\_\_\_

To,  
The Director,  
Indian Institute of Technology Hyderabad,  
Kandi, Sangareddy 502284

Sub: Declaration of Local content

Tender Reference No: \_\_\_\_\_

Name of Tender / Work: - \_\_\_\_\_

1. Country of Origin of Goods being offered: \_\_\_\_\_

2. We hereby declare that items offered has \_\_\_\_% local content (**Please provide exact %**).

3. Details of location at which local value addition will be made / made: (Complete address to be mentioned) \_\_\_\_\_

\_\_\_\_\_

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

“\*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”

**Yours Faithfully,**  
**(Signature of the Bidder/OEM, with Official Seal)**

**ANNEXURE F**

**CERTIFICATE BY BIDDER- DPIIT REGISTRATION**

“ I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, / if from such a county, has been registered with the Competent Authority (copy of the Registration Certificate enclosed) . I hereby certify that his bidder fulfils all requirements in this regard and is eligible to be considered.

Signature with Date and Stamp  
Of the Bidder

ANNEXURE G

**DECLARATION REGARDING CLEAN TRACK/NO LEGAL ACTION**

(to be provided on letter head of the firm)

I hereby certify that the above firm namely \_\_\_\_\_ is neither blacklisted by any Central/State Government/Public Undertaking/Institute nor any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in any every respect and in any case at a later date it is found that any of the details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

OR

I hereby certify that our firm namely \_\_\_\_\_ was blacklisted by \_\_\_\_\_ for a period of \_\_\_\_\_ years/months at the Institute Level/ All Indian Level.

Date:

Authorized Signatory

Name:

Place:

Designation:

Contact No.:

ANNEXURE –H

BIDDER INFORMATION FORM

Company Name : \_\_\_\_\_

Registration Number : \_\_\_\_\_

Manufacturer /Distributor for the quoted product :  
\_\_\_\_\_

Registered Address : \_\_\_\_\_  
\_\_\_\_\_

Name of Partners /Director: \_\_\_\_\_  
\_\_\_\_\_

City : \_\_\_\_\_

Postal Code : \_\_\_\_\_

Company's Establishment Year : \_\_\_\_\_

Company's Nature of Business : \_\_\_\_\_

Company's Legal Status (tick on appropriate option )

- 1) Limited Company
- 2) Undertaking
- 3) Joint Venture
- 4) Partnership
- 5) Others ( In case of Others please specify)

Company Category

- 1) Micro Unit as per MSME
- 2) Small Unit as per MSME
- 3) Medium Unit as per MSME
- 4) Ancillary Unit
- 5) SSI
- 6) Others ( In case of Others please specify)

## CONTACT DETAILS

Contact Name : \_\_\_\_\_

Email Id : \_\_\_\_\_

Designation : \_\_\_\_\_

Phone No : ( \_\_\_\_\_ ) \_\_\_\_\_

Mobile No : \_\_\_\_\_

## BANK DETAILS

Name of Beneficiary : \_\_\_\_\_

A/c. No. CC/CD/SB/OD: \_\_\_\_\_

Name of Bank : \_\_\_\_\_

IFSC NO. (Bank) : \_\_\_\_\_

Branch Address and Branch Code: \_\_\_\_\_

\_\_\_\_\_

## Other Details

Vendor's PAN No. \_\_\_\_\_

Vendor's GST \_\_\_\_\_

ANNEXURE – I

PREVIOUS SUPPLY ORDER LIST FORMAT

Order placed by <i>{ Full address of Purchaser }</i>	Order No. and Date (Copies Need to be attached)	Description and quantity of ordered equipment	Value of order	Contact Person along with Telephone no., Fax no. and e-mail address.

Note: Technical Committee may seek additional information from the existing users at IIT Hyd or from other Institutes, these feedbacks will be considered for technical evaluation.

Signature and Seal of the Manufacturer/ bidder .....

Place:

Date:

ANNEXURE – J

ACCEPTANCE OF TENDER TERMS  
(To be given on Company Letter Head)

Date: DD/MM/YYYY

To,

The Director  
Indian Institute of Technology Hyderabad  
Kandi – 502 285.Telangana, India

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No/GeM Bid no: \_\_\_\_\_

Name of Tender / Work: -

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned ‘Tender’ from the web site(s) namely \_\_\_\_\_ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

ANNEXURE – K

**Bid Securing Declaration Form**

Date: \_\_\_\_\_

Tender No. \_\_\_\_\_

To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported with EMD of Rs. 2,00,000/-

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of two year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

- a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: \_\_\_\_\_ (insert signature of person whose name and capacity are shown)  
in the capacity of \_\_\_\_\_ (insert legal capacity of person signing the Bid Securing Declaration)

Name: \_\_\_\_\_ (insert complete name of person signing he Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

ANNEXURE -L

## FORMAT FOR PERFORMANCE BANK GUARANTEE

To  
Indian Institute of Technology Hyderabad.  
Kandi, Sangareddy 502284

Dear Sirs,

In consideration of the Indian Institute of Technology Hyderabad (hereinafter referred to as the "Buyer" which expression shall unless excluded by or repugnant to the context or meaning thereof, include its successors administrators and assigns) having issued to ..... (Name of the seller) with its Registered / Head Office at ..... (hereinafter referred to as the "Seller" which expression shall unless excluded by or repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) an order bearing Purchase Order No. .... dated ..... and the same having been unequivocally accepted by the seller resulting into a Contract between the buyer and the seller for supply of ....., more fully described in the said Purchase Order and the buyer in terms of one of the provisions of the said Purchase Order and whereas the Seller has undertaken to produce a Bank Guarantee amounting to Rs. \_\_\_\_\_, which is 5% of the Contract value in aggregate for Performance and Warranty to the Buyers.

We, the \_\_\_\_\_ bank hereby expressly, irrevocably and unreservedly undertake the guarantee as Principal obligators on behalf of the SELLER that, in the event that the BUYER declares to us that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by the BUYER by reason of breach/failure to perform by the said SELLER of any of the terms and conditions in the contract related to the Performance and Warranty clauses, we will pay you, on demand and without demur, all and any sum upto (5% of the contract value) Rs. \_\_\_\_\_ only at any one instance under this Guarantee. Your written demand shall be conclusive evidence to us that such repayment is due under the terms of the said contract. We shall not be entitled to ask you to establish your claim or claims under this guarantee but will pay the same forthwith without any protest or demur. We undertake to effect the payment upon receipt of such written demand.

We shall not be discharged or released from the undertaking and guarantee by any arrangements, variations made between you and the SELLER, indulgence to the SELLER by you, or by any alterations in the obligations of the SELLER or by any forbearance whether as to payment, time performance or otherwise.

We further agree that any such demand made by the BUYER on the Bank shall be conclusive, binding, absolute and unequivocal notwithstanding any difference or dispute or controversy that may exist or arise between you and the Seller or any other person.

In no case shall the amount of this guarantee be increased.

This Performance-cum-Warranty guarantee shall remain valid for a period until 60 days beyond the warranty period i.e. upto \_\_\_\_\_

Subject to the terms of this Bank Guarantee, the issuing bank hereby irrevocably authorizes the beneficiary to draw the amount upto Rs. \_\_\_\_\_ ( 5% of the total contract value) for breach/failure to perform by the Seller of any of the terms and conditions of the contract related to performance and warranty clause. Notwithstanding anything mentioned herein, the total drawings under the Guarantee by the buyer shall not exceed 5% of the total contract value. Partial drawing and multiple drawings under this Bank Guarantee are allowed within the cumulative amount and subject to each such drawing not exceeding 5% of the contract value.

This guarantee shall be continuing guarantee and shall not be discharged by any change in the constitution of the Bank or in the constitution of M/s. \_\_\_\_\_. We undertake not to revoke this guarantee during the currency except with previous consent of BUYER in writing.

Notwithstanding anything contained herein above:

- Our liability under this Guarantee shall not exceed Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only ( in words)
- This Bank Guarantee shall remain valid until 2 months from the date of expiry of warranty period of the contract i.e. upto \_\_\_\_\_ ( mention the date) which is 2 months after expiry of the warranty period and the BG shall cease to be valid after \_\_\_\_\_ irrespective whether the Original Bank Guarantee is returned to us nor not.
- We are liable to pay guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written demand or a claim in writing on or before \_\_\_\_\_ (Expiry Date)

Dated the \_\_\_\_\_ day of \_\_\_\_\_ (month and year)

Place

Signed and delivered by \_\_\_\_\_ (name of the bank)

Through its authorized signatory  
(Signature with Seal)

ANNEXURE –M

BANK GUARANTEE FORMAT FOR EARNEST MONEY DEPOSIT

To  
Indian Institute of Technology Hyderabad.  
Kandi, Sangareddy 502284

WHEREAS \_\_\_\_\_(Name of Bidder) (hereinafter called "the Bidder" has submitted its Bid dated \_\_\_\_\_ (Date) for the execution of (Name of Contract)\_\_\_\_\_ Tender no & Date: \_\_\_\_\_(hereinafter called "the Bid") in favour of \_\_\_\_\_hereinafter called the "Employer" (IFSC Code: SBIN0014182 ;

KNOW ALL MEN by these presents that we, \_\_\_\_\_(name of the issuing Bank), a body corporate constituted under the \_\_\_\_\_having its Head Office at \_\_\_\_\_amongst others a branch/office at \_\_\_\_\_ (hereinafter called "the Bank" are bound unto the employer for the sum of Rs\_\_\_\_\_ (Rupees\_\_\_\_\_only) for which payment well and truly to be made to the said Employer, the Bank binds itself, its successors and assigns by these presents;

THE CONDITION of this obligation is:

If the bidder withdraws or amends their offer of empanelment before finalization of empanelment by the employer,

We undertake to pay to the Employer up to the above amount upon receipt of his first written demand without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owing to the occurrence the above condition.

Notwithstanding anything contained herein

- i. Our liability under this Bank Guarantee shall not exceed Rs.\_\_\_\_\_ (Rupees \_\_\_\_\_only)
- ii. This Bank Guarantee (**it should be valid six months from the date of issue of BG** ) is valid up to \_\_\_\_\_ and
- iii. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before \_\_\_\_\_(mention period of guarantee as found under clause (ii) above plus claim period)

Dated \_\_\_\_\_day of \_\_\_\_\_20\_\_\_\_\_

SIGNATURE OF THE BANK