



University of Calcutta

ITEM RATE E-TENDER

**REGISTRAR DEPARTMENT
DARBHANGA BUILDING**

87/1 College Street
Kolkata - 700073

University of Calcutta

Notice Inviting e-Tender

(Bidding through e-tendering mode only)

E-Tender No.: R/157/26

Dated: 10.03.2026

The University of Calcutta invites e-tenders for supply of following ITEMS for the **RUSA Project** from experienced & bonafide firms/ organizations having credential of similar nature of work in any Government/ Semi-Govt./State Aided University/Autonomous Govt. aided Institution.

Name of Work: Supplying, installation and commissioning of turnkey based High-quality 4K Studio production studio and digital integration TV studio with modern design and academic focus with 3 years comprehensive warranty and end-to-end range of assistance up to 24 weeks under RUSA project in College Street Campus, University of Calcutta.

- 1) **Earnest Money (EMD):** Rs 300000/- only. **(To be deposited Online).**
- 2) **Exemption of EMD is not allowed in any case.**
- 3) **No interest will be paid on the EMD (if any).**
- 4) **Completion time of the work:** 60 days from the date of issuing work order.
- 5) **Bid Validity Period:** 180 days.
- 6) **Name of the Concerned Department:** Office of the Registrar Department, University of Calcutta.
- 7) **Eligibility criteria for participation in the tender (up to date as on date):**

- The intending bidder must attach the photo-copies of all the relevant documents such as **Valid Trade License in similar nature of work**, P.Tax, GST & Pan and credential for satisfactory completion of **similar nature of job amounting to 75% of the quoted value** in a single tender in the last three (03) financial years in Government, or Government Undertaking or any State Aided University. **Only completion certificate of the work will be considered as Credential of works.** Original documents **(up to date as on date)** may be asked for verification of technical checking on the date of tender opening. Failing to produce original documents, the tender will be rejected.

N.B: – Completion certificate should contain a) Name of work, b) Name and address of Client, c) Amount put to tender, d) Date of commencement of work e) Date of completion of work.

- The bidder must have a registered office at Kolkata or surrounding districts in West Bengal. A copy of the address proof is to be submitted.

- The vendor must submit the certificate for the authenticity of the items from the OEM.
 - The bidder should either be an OEM or authorized dealer of the OEM. The authorized dealer of OEM should have dealership for the last 03 (Three) financial years.
- 8) BOQ for the respective work should be uploaded along with valid trade license, P.Tax, PAN, GST & completion certificate for last 03 financial years (up to date as on date).
 - 9) Consortium is not allowed and No Partial Quote will be accepted.
 - 10) **Time Extension:** Time is the essence of the contract, generally no time of extension will be allowed. But, in case of Force Majeure, the extension of time may be considered on the basis of actual situation and subject to consideration of the Tender Inviting Authority.
 - 11) **Liquidated damage:** Liquidated damage will be charged to the contractor, if they fail to complete the work within the stipulated time as per contract@0.01% per day to a maximum limit of 10 % of the contract value.
 - 12) **Defect& Liability Period:** The defect & liability period will be for a period of 03 (three) years comprehensive warranty from the date of completion of the job. Any defects pointed out during said period has to be mending good damages by the agency at their own cost failing which the retention money will be forfeited.
 - 13) **No extra payment will be paid beyond the tendered amount.**
 - 14) The Tender Inviting Authority reserves the right to accept or reject any tender without assigning any reasons.
 - 15) **The intending bidder must quote all item/s rate on the BOQ, failing which his/her tender, will be cancelled. The Bidder should inspect the site for the mentioned work before bidding of the tender.**

Technical Specification:

Name of the work:-			
Supplying, installation and commissioning of turnkey based High-quality 4K Studio production studio and digital integration TV studio with modern design and academic focus with 3 years comprehensive warranty and end-to-end range of assistance up to 24 weeks under RUSA project in College Street Campus, University of Calcutta.			
A. SITC of STUDIO CAMCORDER WITH ACCESSORIES.		Qty	UNIT
1.00	<u>4k Handheld Production Camera</u> Three 1/2-type 4K Exmor R® CMOS image sensors solid state 4K (HDR) camcorder with facility of wireless monitoring and remote control through smartphone, tablet for Studio and field use. AF control should be AI capabilities Imaging Device: 1/2-type Exmor R 3CMOS sensor Number of Pixels (Total):12.2 megapixels Number of Pixels (Effective): Approx. 8.3 megapixels Minimum Illumination: 0.0013lx (typical) or better Built-in ND Filter: Linear variable ND (1/4 ND - 1/128 ND) User assignable buttons: Yes Shutter Type: Electronic shutter Shutter Speed: 64 F to 1/8000 s Slow & Quick Motion (S&Q): Yes White Balance: 2000 K - 15000 K Gain: -3 to 18 dB (every 1 dB), 42 dB (Turbo gain On) Image Stabilization (Type): Lens-shift mechanism Image Stabilization (Mode): On / Off Lens Compensation: Peripheral Shading, Chromatic Aberration, Distortion Sensitivity (2000 lx, 89.9 % reflectance): F12 (typical, 1920 x 1080/59.94p mode) F13 (typical, 1920 x 1080/50p mode) F12 (typical, 3840 x 2160/59.94p, High Sensitivity Mode) F13 (typical, 3840 x 2160/50p, High Sensitivity Mode) Digital Extender: Digital extender Approx. 1.5x (4K), Approx. 4x(HD) Focus Type: Auto & Manual Zoom Ratio: 17x Focal Length: f = 5.6 - 95.2 mm Focal Length (35mm Format Equivalent): 30.3 - 515 mm\ Iris (Maximum Apertures): F1.9 or better Focus Range (From the front of the Lens): Approx. 5 cm (0.16 ft.) to infinity (MACRO ON) Approx. 80 cm (2.62 ft.) to infinity (MACRO OFF) Filter Diameter: 77 mm Type (LCD Screen): 8.8 cm TFT (touch) Video recording format: XAVC Intra / XAVC Long : MPEG-4 AVC/H.264,MPEG HD422 : MPEG-2 Long GOP Video recording frame rate: 4K(60P/50P/30P/25P/24P) and	1.00	NOS

	HD(60P/60i/50P/50i/30P/25P/24P) Proxy Recording: Yes Recording System (Audio): LPCM 4ch (48 kHz 24 bit) Memory slot: 2 (support relay recording) SDI OUT: BNC, 12G-SDI, 6G-SDI, 3G-SDI, HD-SDI HDMI Output: HDMI connector Timecode Input / Output :BNC, TC IN / OUT Switchable Genlock: BNC, Genlock IN / REF OUT Switchable Audio Input: XLR 3-pin (Female) x2 Multi Interface Shoe: Digital Audio Interface Built-In Microphone: Stereo Built-In Speaker: Monaural Headphone Terminal: 3.5 mm Stereo minijack Bluetooth: Yes Wired LAN: 1000BASE-T, 100BASE-TX, 10BASE-T Wireless LAN (Built-In): Wi-Fi Compatible PC Interface: Mass-storage / MTP Streaming protocols (Network): RTMP, RTMPS, SRT Streaming Video Data Format (Network):MPEG-4 AVC/H.264, MPEG-H HEVC/H.265 Video Resolution (Network): 3840 x 2160, 1920 x 1080, 1280 x 720 Convenient USB Power Delivery: Yes DC Input: Yes Battery Powered : Yes Make: Sony / Red / Arri / or Equivalent		
2.00	<u>4k Handheld Production Camera</u> Camera Type Solid-state 4K (HDR) memory camcorder 4K high frame rate (HFR) recording at up to 120fps and FHD at 240fps Sensor Type: 1.0-type Exmor RS CMOS sensor Number of Pixels (Total) : 20.9 megapixels or better Number of Pixels (Effective) :14.0 megapixels or better Minimum Illumination: 1.2 lx or better Auto Tracing White Balance (ATW) control should be AI capabilities AF control should be AI capabilities Lens Zoom Ratio : 20x or better Focal Length f=7.71-154.21 mm Focal Length (35mm Format Equivalent) 24-480 mm Focus Range (From the front of the Lens): 1 cm (0.03 ft) to ∞ (wide) and 100 cm (3 ft) to ∞ (telephoto) Iris: F2.8-F4.5 or better Built-in ND Filter: Linear variable ND (1/4 ND - 1/128 ND) Filter Diameter: 72 mm Optical Low Pass Filter: Yes Shutter Type: Electronic shutter Shutter Speed: 1/8000 sec to 64F Image Stabilization (Type) : Lens-shift mechanism and electronic Image Stabilization Image Stabilization (Mode): Active / Standard / Off Base Look: S-Cinetone, ITU709, 709tone, s709, 709(800%), S-Log3, HLG (Live / Mild / Natural) Lens Compensation: Peripheral Shading, Chromatic Aberration, Distortion. ISO Sensitivity: ISO 250-16000	2.00	NOS

	equivalent Focus Type: Fast Hybrid AF (Phase-detection AF / contrast-detection AF) Focus Point: 475 points or better Gain: -3 to 36 dB (Every 1 dB) White Balance: 2000 K - 15000 K User assignable buttons: Yes Slow & Quick Motion (S&Q): Yes Recording Format (Video):XAVC S: MPEG-4 AVC / H.264,XAVC HS: MPEG-H HEVC / H.265,MPEG HD422 Recording System (Audio): LPCM 4ch (48 kHz 24 bit) Viewfinder: 1.0 cm OLED viewfinder (XGA OLED) LCD Screen: 8.8 cm TFT(Touch) Media Slot for recording: 2 no Streaming: Yes (RTMP, RTMPS, SRT) Streaming Video Resolution (Network): 3840 x 2160, 1920 x 1080 SDI Output: BNC, 12G-SDI, 6G-SDI, 3G-SDI (Level A / B), HD-SDI HDMI Output: HDMI connector Audio Input: 3.5 mm Stereo minijack, XLR 3-pin (Female) x2 Built-In Microphone: stereo Built-In Speaker: Yes Timecode Input / Output: BNC DC Input: Yes Multi Interface Shoe: Yes (With Digital Audio Interface) Wired LAN: Yes (1000BASE-T, 100BASE-TX, 10BASE-T) Remote (Wireless): Yes Battery powered: Yes Make: Sony / Red / Arri / or Equivalent		
3.00	<u>Battery and Memory card</u> Maximum/nominal voltage 16.4 V DC/14.4 V DC Capacity 72 Wh Charging time (using the BC-U1A/U2A) Approx. 150 min. Operating temperature (when discharging / charging) -20°C to + 45°C (-4°F to + 113°F) / 0°C to 40°C (32°F to 104°F) Remaining capacity display Four LED (20, 40, 60, and 80%) TOUGH specification with crush and shock-proof design Ribless and switchless design enhances reliability, minimising risks of breakage High level (IP68) of dust- and waterproofing World's fastest14 write speed at up to 299 MB/s 15 for burst and high-resolution imaging Dedicated software available to monitor the condition of your card and lets you know before it has reached its write cycle limit. Transfer Speed (Write) Up to 299 MB/s (HD312), Up to 90 MB/s (SDR104) Transfer Speed (read) Up to 300 MB/s (HD312), up to 95 MB/s (SDR104) Speed Class Class 10 (SD Speed Class), Class 3 (UHS Speed Class), V90 (Video Speed Class) Interface UHS-II Make: Sony / Red / Arri or Equivalent	2.00	SETS
4.00	<u>TRIPOD & DOLLY SYSTEM:</u> Payload Capacity: Minimum 12 kg (26.5 lb) without compromise on stability. Tripod: Two-stage construction, Lightweight: only 2.2kg (4.9lbs) 3/8" accessory mounting points on the bowl Payload 20 kg Height Range	3.00	NOS

	Adjustable from approximately 60 cm to 160 cm (collapsed to extended) Transport Length 71 cm Weight 2.2 kg Temperature Range -40°C to 60°C Bowl base: Mount plates to attach to 75mm bowl tripods & Hi-Hats. Camera and Prompter Plate: 10CM Fully compatible with any camera where the tapped mounting holes on the underside are in line with the lens center of the camera Bowl Support: Can be fitted with standard ball bases and tiedowns (75mm, 100mm, 150mm), all flat pedestal base types and Mitchell mounts. Dolly: Integrated dolly with three lockable wheels, cable guards, and track locks Weight 4.4 kg Payload 40 kg Built Up Radius 52.8 cm Stability & Vibration Damping: Zero wobble or vibration under full payload; aluminum construction with reinforced joints Compatibility: Suitable for handheld cameras without prompter. mounting plate must align tapped holes precisely with lens center Weight (Complete System): Approximately 8-10kg. Make: Sachtler / KRATOS / Terris or Equivalent		
B. MCR/PCR SETUP WITH ACCESSORIES			
5.00	<u>TELEPROMPTER REMOTE CLIENT:</u> Processor: 12th Gen Intel Core i5-12450H – Built for performance with 8 cores (2 Performance + 4 Efficient) and 12 threads. Turbo speeds up to 4.4GHz and 12MB cache deliver responsive power for multitasking, productivity, and entertainment. Display: 15.6" FHD (1920x1080) TN 250nits Brightness Anti-glare Dive into crisp visuals on a 15.6" Full HD screen with a slim micro-edge design that maximizes viewing area. The anti-glare coating reduces reflections for comfortable viewing in bright spaces, while the TN panel delivers fast response times — ideal for everyday work, streaming, and browsing. Battery: - Power through your day with a 47Wh battery that keeps you going up to 7.6 hours on typical use (MobileMark2018) and up to 12 hours of local Full HD video playback. When you need a quick boost, Rapid Charge Boost gives you 2 hours of runtime with just a 15-minute charge — perfect for staying productive on the move. Camera, Audio & Connectivity: Stay connected and clear with a Full HD 1080p webcam featuring a privacy shutter for your peace of mind. Enjoy rich, immersive sound from user-facing stereo speakers (1.5W x 2) optimized with Dolby Audio for crisp calls, music, and movies. Plus, experience fast and reliable wireless performance with Wi-Fi 6 (802.11ax) and Bluetooth 5.2, keeping you seamlessly connected wherever you go. OS and Software: Powered by Windows 11 Home 64-bit, this device comes ready to work and play with Office Home 2024 pre-installed for all your productivity needs. Design: Sleek and portable, this laptop features a slim 1.79 cm profile and weighs just 1.63 kg — perfect for carrying on the go. Enjoy an immersive viewing experience with narrow bezels on all four sides, maximizing your screen space without adding bulk. Ports: - Stay connected and productive with a versatile range of ports, including two USB 3.2 Gen 1 ports and a USB-C 3.2 Gen 1 that supports data transfer, Power Delivery, and DisplayPort 1.2. Easily connect external displays via HDMI 1.4, plug in your headset with the combo audio jack, and quickly access files with the built-in card reader—all while keeping	1.00	NOS

	your device powered with the dedicated power connector. Built to endure, this ultra-tough laptop meets MIL-STD-810H military-grade standards, ready to handle extreme temperatures, high altitudes, humidity, drops, and more. Whether you're in class, at a café, or in the boardroom, it's designed to keep up with your active lifestyle and demanding environments. Make: Lenovo / Dell / HP or Equivalent		
6.00	Teleprompter: Panel Size Should be 17" Or bigger Panel Dimensions 36,3 x 28 x 4,5 cm Resolution 1024X768 or Higher Brightness 400 cd/m2 or Higher Weight 6,5 Kg or Less Reading Range At least 5 Mtr or 16 ft Aspect Ratio 04:03 Contrast Ratio 700:01:00 Viewing Angle 160/140 Video Input HDMI, VGA, Composite (BNC) Video Output HDMI, VGA, Composite (BNC) Rated Input Power 35W Rated Input Voltage 110V-230V AC (50-60Hz) / 12 V DC Rated Output Voltage 12 V DC Compliance European Standard (CE) or ROHS or BIS is must TP Construction Should be entirely Metal body with Powder Coating TP Construction Type TP Shall be tool less and shall be mounted with no additional efforts of tools, to save time Hood Type TP hood shall be black in colour with Premium Fabric Inbuilt Mirroring TP Hardware shall have the inbuilt Mirroring feature TP Mirror 70/30 or 80/20 TP Software Software should be from Same Manufacturer / Hardware & Software should be from same brand Paragraphs Feature S/W should be able to create Paragraphs, for Jump, and return. Coloured Text S/W should be able to Colour the Text (all colour supported). Coloured Background S/W should be able to Colour the Background (all colour supported). Online Editing S/W should be able to edit the running script All language supports All International & National languages should support, all work. Copy & Pasting the Script Copy & pasting the script should work All font supports All font should run / work including Kruti Dev as well All format Import Any format like: word/text/rtf/ppt can be imported to run the script, ppt should also work. Import & Save S/w should Import and save your scripts as rich text or simple text (.docx, .txt and .rtf format without needing MS Word). Built in Word Processor S/w Should have Built-in Word Processor/Script Editor (Script Printing, Undo/Redo, Text Search/Replace). Unicode Sources S/w Should Allow Unicode sources (Double-byte fonts). Preview S/w Should prompt Preview window on main screen and talent monitor. Bookmarks & Cue points S/w Should support User Selectable Cue Points (Bookmarks) Wireless Control Bluetooth Based Wireless Control / 3 Buttons (next, previous, function with Scroller)	1.00	NOS

	and a pot wireless hand control device up to 30 meters wireless transmission. Should be handy and Pen like remote for easy usage and control Adaptable with Shoulder Type ENG & Studio System Cameras. Teleprompter Remote Control with Talent monitor. Make: Fortinge / Autoscript / Sambad or Equivalent		
7.00	<u>4K 8-CHANNEL LIVE PRODUCTION SWITCHER.</u> 12 Channel 4K Video Production Switcher with Hardware Panel 8 x 12G-SDI & 4 x HDMI inputs and output of 4 x 12G-SDI 3 x HDMI, All assignable, Video Processing: SDI: 4:2:2 10-bit, HDMI: YUV 4:2:2 10-bit, RGB: 4:4:4 8/10-bit, Down-converted Output: Yes, Title Creator: Yes, PC Remote Control: DVIP (Ethernet), 5" Touchscreen Display, Audio Delay Calibration: Up to 16 fields or 8 frames per channel, 4 x Analogue XLR Audio input, 2 x Analogue XLR out. Make: Sony / Datavideo / Roland or Equivalent	1.00	NOS
8.00	<u>ProRes 4K Video Recorder with Accessories.</u> 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 /30/50/59.94/60Hz, 1080i 50/59.94/60Hz, 720p 50/59.94/60Hz, Video Input: 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" 1TB 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, Audio Recording Format: Uncompressed PCM Sampling rate 48KHz 24bit, 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), Chassis: Desktop, Power: DC 12V, 3A. Make: Sony / Datavideo / Roland or Equivalent	1.00	NOS
9.00	<u>Wired Professional Talkback system Wired Professional Talkback system.</u> Support upto 8 beltpack, with dual color tally light Indicator, Communication Distance Up to 200 Meters, Selectable Channel Talk, Broadcast to All or Mute, Tally:2 x 15 Pin DSub Sockets for Tally A and B, MIC / Headset: 3.5 mm Stereo Jack Socket for Headphone / Microphone combination, Headset Impedance 8-600 Ohms 100 mW (min)	1.00	NOS

	Make: For-A / Datavideo / Roland or Equivalent		
10.00	<u>AUDIO MIXING CONSOLE</u> 24 channel professional mixer, 20 Mono Mic/line + 2 x Stereo inputs, 2 x output main, 4 x output AUX, 2 x output group, 9 band stereo, switchable graphic equalizer, Eq. High @ Gain +/-15dB with frequency @ 12kHz shelving, Eq mid @ Gain +/-15dB having Mono channel's frequency @ 100Hz - 3kHz peaking & Stereo channels frequency @ 3kHz peaking, Eq. Mid @ Gain +/-15dB with frequency @ 80Hz shelving, 75 Hz 18dB/octave low cut, DSP based 99 effects, Bluetooth playback, USB playback, Record to USB, Frequency response @ 10 Hz - 90 kHz (+0, -1 dB), Mic EIN [Equivalent Input Noise] 50Ω -133dB, Per mic ch or Global phantom power, 2 stereo subgroups, THD @ 0.004% A-weighted, SNR @ 110dB (A-weighted, + 22 dB gain), Max output level @ +22dBu, Mute, solo, low-cut and bus- assign switches features per channel, Individual channel, Effects master, MP3 master, Sub group master 1,2, Main L, R fader, 60mm faders, OEM should have their own Head-Office & Service centre in Kolkata for minimum last 10 years and their own service engineers. Supported document like contact nos, email ID and escalation matrix for support within Kolkata city must be mentioned by OEM on their letterhead certificate to be provided with the technical bid along with OEM's current ISO. Makes: Sonodyne / D&B Audiotechnik / Meyer Sound or Equivalent	1.00	NOS
11.00	<u>Wireless lavalier set</u> Transducer type: Pre-polarised condenser Total harmonic distortion (THD): ≤ -60 dB for 1 kHz @ -3 dBfs input level Latency (ms): 1.9 ms or better Audio frequency response: 20 Hz - 20 kHz Acoustic equivalent noise level: 32 dB or better Audio output level: 18 dBu max. Max. sound pressure level: 130 dB Pickup pattern: Omnidirectional Sensitivity: 17 mV/Pa Transmission power: 10 mW or better Operating relative humidity: (≤ %) 5 - 95 % (non-condensing) Tuning bandwidth: 56 MHz Connectivity: Auto scan Connectivity frequencies selection: Auto and manual Transmission type: Digital Battery: Lithium-Ion/ AA batteries Operational duration: 8 hours or better Make: Sennheiser / Shure / DPA or Equivalent	3.00	NOS
12.00	<u>Wired dynamic super-cardioid microphone for speech and vocals</u> Should be handles high sound pressure levels Isolates handling noise, hum compensating coil Pickup pattern: Super cardioid	1.00	NOS

	Transducer type: Dynamic Audio frequency response: 40 - 16,000 Hz or better Nominal impedance: 350 Ω Min. terminating impedance: 1000 Ω Connectors: 3-pin XLR Product weight: Less than 400gm Product length: 170mm to 190mm Make: Sennheiser / Shure / DPA or Equivalent		
13.00	<u>PGM/PVR Monitoring Systems:</u> Screen Size 43" / Brightness (cd/m²) 350 / Contrast Ratio 1,200:1 / Dynamic Contrast Ratio 400,000:1 / Response Time (Gray to gray, Typical, ms) 8 / Display Resolution (H x V, pixels) 3840 x 2160 / HDR (High Dynamic Range) Compatibility Yes (HDR10, HLG) / Aspect Ratio 16:09 / Portrait/Tilt Compatibility Yes / Dimming Type Frame Dimming / Display Device LCD Panel Type IPS / Backlight Type Direct LED / Colour Gamut (DCI-P3) 75% / Picture Processor 4K Processor X1 / Operation Time (16/7) / Deep Black Non-Glare No / Haze (%) 1% Viewing Angle (Right/Left) 178 (89 / 89) degree (CR >10) / Viewing Angle (Up/Down) 178 (89 / 89) degree (CR >10) / Video Processing 4K X-Reality PRO / Motion Enhancer Motion flow XR 240 (Native 60Hz) / HDMI Signal 4096 x 2160p (24, 50, 60 Hz), 3840 x 2160p (24, 25, 30, 50, 60 Hz), 1080p (30, 50, 60 Hz), 1080/24p, 1080i (50, 60 Hz), 720p (30, 50, 60 Hz), 720/24p, 576p, 576i 480p, 480i / Speaker Position Down Firing Audio Power Output 10W + 10W / Pro Mode Yes (Simplified) / HDMI Auto Wake-Up Yes / Operating System Android TV On-board Storage (GB) 16GB / Wi-Fi Certified Yes / Wireless LAN Integrated / USB Playback Codecs MPEG1:MPEG2/MPEG2 PS:MPEG2/MPEG2 TS (HDV, AVCHD):MPEG2, AVC/MP4(XAVC S): AVC, MPEG4, HEVC, AV1/AVI: Motion Jpeg /ASF(WMV): VC1/MOV: AVC, MPEG4/MKV: AVC, MPEG4, VP8, HEVC/3GPP: MPEG4, VC/MP3/ASF(WMA)/ LPCM/WAV /MP4AAC/FLAC/JPEG Chromecast Built-In Yes / Apple AirPlay Yes / IP Control Yes / RS-232C Control Yes, HDMI-CEC Yes / HDCP HDCP2.3 (for HDMI1/2/3) / Composite Video Input (s) 1 (Side, Mini jack) / HDMI Inputs Total 3 (3 Side) / Analog Audio Input (s) (Total) 1 (Side Analog Conversion) / Digital Audio Output (s) 1 (Side) / USB Ports 2 (Side) / Ethernet Inputs 1 (Side), Frame Colour Hairline Black / VESA® Hole Spacing Compatible Yes / VESA® Hole Pitch (W x H) 200 x 200 mm / 7 7 / 8 x 7 7 / 8 inch / Rated Power Consumption 125W / Power Consumption (in Standby) 0.5 W Make: Sony / LG / Samsung or Equivalent	1.00	NOS
C. STUDIO AND PCR/MCR PREVIEW SETUP.			
14.00	<u>5.2 STUDIO PREVIEW AND MONITORING SYSTEMS.</u> 3 NOS-FOH SPEAKER FOR L, C, R Passive 2 way professional speaker, ported, Transducer compliments LF: 1 x 8" woofer & 1.5" dia glass-fiber voice coil coupled with HF: 1 x 1" throat compression driver & 1.35" dia voice coil, 8 ohm nominal impedance, Cont. power @ 200 watt, program power @ 400 watt, peak	1.00	SETS

@ 800 watt, Frequency range @ 60Hz - 18kHz (-10dB), Frequency response @ 70Hz - 17kHz (-3dB), cont. SPL @ 117dB & peak SPL @ 123dB, Twist-lock connector (input), Directivity H90°x V50°, Sensitivity @ 94dB (1W/1M), Crossover frequency @ 2.5kHz, Trapezoidal shaped polypropylene Bass-reflex, through twin front-firing vents cabinet enclosure.

2 NOS- SPEAKER FOR LEFT & RIGHT-SIDE FILLS

Passive 2 way professional speaker, ported, Transducer compliments LF: 1 x 15" woofer & 3" dia glass-fiber voice coil coupled with HF: 1 x 1" throat titanium dome compression driver & 1.75" dia voice coil, 8 ohm nominal impedance, Cont. power @ 500 watt, program power @ 1000 watt, peak @ 2000 watt, Frequency range @ 50Hz - 18kHz (-10dB), Frequency response @ 60Hz - 17kHz (-3dB), cont. SPL @ 125dB & peak SPL @ 131dB, Twist-lock connector (input), Directivity H90°x V50°, Sensitivity @ 98dB (1W/1M), Crossover frequency @ 1.4kHz, Trapezoidal shaped polypropylene Bass-reflex, through twin front-firing vents cabinet enclosure, OEM should have their own Head-Office & Service centre in Kolkata for minimum last 10 years and their own service engineers. Supported document like contact nos, email ID and escalation matrix for support within Kolkata city must be mentioned by OEM on their letterhead certificate to be provided with the technical bid along with OEM's current ISO.

1 NOS-Passive Subwoofer, Transducer compliments LF 1 x 18" woofer with 4" voice coil, 8 Ohms nominal impedance, frequency range @ 30Hz ~ Crossover freq [-10dB), Recommended crossover frequency @ 80-120Hz & 18-12dB/ oct low-pass, Recommended subsonic filter @ 35Hz, 24dB/octave, Sensitivity @ 97dB (1W/1M), Cont. power handling @! 800-watt, program @ 1600 watt & peak @ 3200-watt, Cont. MAX SPL @ 126dB & Max @ 132dB, 1 x Twist-lock connector (input) 1 x Twist-lock connector (link) connectors.

1 NOS-Dedicated controller for subwoofer with subsonic filter with balanced output through male XLR socket, Built-in variable low-pass filter with frequency control, Gain control and phase control, Link consists of Female XLR socket, wired in parallel to Output socket, 100dB S/N ratio, THD+N @ <0.01%, Fully balanced through XLR socket input, Gain control range @ -6dB to +6dB, 0dB at centre position, Frequency control @ 50Hz - 150Hz, Phase control @ 0° to 180°, Gain, Frequency and Phase controls on front, 8V maximum output voltage.

1 NOS-Quad channel power amplifier, Class H, 600 watt per channel @ 8 Ohms, 900 watt per channel @ 4 Ohms, 1800 watt @ 8 Ohms bridge mode, THD @ <1%, Damping factor @ 250, S/N ratio @ 105dB, Frequency response @ 20Hz-20kHz (+/-0.5dB), each channel input through XLR, Twist-lock output connector, Short circuit, output DC, thermal, RF protection, Front panel controls & indicators consists of clip, protect and signal LED indicators, 42 detent rotary vol control, Rear panel controls consists of 3 position Slide switch for Mono, Dual & Bridge mode, 3 position Slide switch for sensitivity @ 0.775V, 1V and 1.4V, OEM

	should have their own Head-Office & Service centre in Kolkata for minimum last 10 years and their own service engineers. Supported document like contact nos, email ID and escalation matrix for support within Kolkata city must be mentioned by OEM on their letterhead certificate to be provided with the technical bid along with OEM's current ISO. 1 NOS-Dual channel power amplifier, Class AB, 400 watt per channel @ 8 Ohms, 600 watt per channel @ 4 Ohms, 1200 watt @ 8 Ohms bridge mode, THD @ <1%, Damping factor @ 280, S/N ratio @ 101dB, Frequency response @ 20Hz-20kHz (+/-0.5dB), each channel input through XLR with link, Twist-lock output connector and binding post, Short circuit, output DC, thermal, RF protection, Front panel controls & indicators consists of clip, protect and signal LED indicators, 42 detent rotary vol control, Rear panel controls consists of 3 position Slide switch for Mono, Dual & Bridge mode, 3 position Slide switch for sensitivity @ 0.775V, 1V and 1.4V. 1 NOS-Dual channel power amplifier, Class H, 1000 watt per channel @ 8 Ohms, 1400 watt per channel @ 4 Ohms, 2800 watt @ 8 Ohms bridge mode, THD @ <1%, Damping factor @ 240, S/N ratio @ 105dB, Frequency response @ 20Hz-20kHz (+/-0.5dB), each channel input through XLR with link, Twist-lock output connector and binding post, Short circuit, output DC, thermal, RF protection, Front panel controls & indicators consists of clip, protect and signal LED indicators, 42 detent rotary vol control, Rear panel controls consists of 3 position Slide switch for Mono, Dual & Bridge mode, 3 position Slide switch for sensitivity @ 0.775V, 1V and 1.4V. Makes: Sonodyne / d&B Audiotechnik / Meyer Sound or Equivalent		
15.00	<u>PCR/MCR AUDIO MONITOR.</u> 2 way Class AB BI amplified speaker enclosed in pressure die-cast aluminium, vented, through front-firing aerodynamic port, Transducer complements of HF 26mm silk dome neodymium magnet tweeter with custom waveguide & LF 6 inch glass fibre cone woofer in die-cast chassis, amplifier power LF: 80W, HF: 50W, THD @ <0.04%, Max SPL @ 107dB (1M), Frequency response @ 48Hz - 21kHz (+/-3dB), Frqucny range @ 42Hz - 25kHz (-10dB), Crossover frequency @ 2kHz, CMRR @ >65 dB, Fully balanced through XLR & linked TRS sockets input, Input level @ +7dBU for 90dB SPL, -70dB - +10dB, 0dB at (detected) centre gain control range, -2dB at 15kHz treble tilt, -2dB , -4dB , -6dB at 80Hz bass tilt, Bass roll-off @ 100 Hz, 6dB/octave, S/N ratio @ >90dB, referred to full output, Front controls consisting of power switch & gain control; Rear controls of bass tilt, treble tilt, bass roll-off, Protection from over current, overheat , RFI, switch on/ off transients. OEM should have their own Head-Office & Service centre in Kolkata for minimum last 10 years and their own service engineers. Supported document like contact nos, email ID and escalation matrix for support within Kolkata city must be mentioned by OEM on their letterhead certificate to be provided with the	2.00	NOS

	technical bid along with OEM's current ISO.		
	Make: Sonodyne / Genelec / Focal or Equivalent		
16.00	<u>PROJECTION SYSTEMS.</u> Display System: 3LCD system Effective Display Area 0.64" (16.3 mm) x 3 Bright Era LCD Panel, Aspect ratio: 16:10 Number of Pixels 6,912,000 (1920 x 1200 x 3) pixels Projection Lens Focus Manual Zoom Manual (Approx. x 1.6) Lens shift Manual, Vertical -35% to +55%, Horizontal: +/-15% Throw Ratio 1.23: 1 to 1.97: 1 Light Source Laser diode Screen Size 40" to 300" (1.02 m to 7.62 m) (measured diagonally) Light Output *1 Mode: Standard 5,300lm *2 / 5,800lm (Centre) *3 Mode: Middle 4,000lm Color Light Output *1 Mode: Standard 5,300lm Mode: Middle 4,000lm Contrast Ratio (full white / full black) *1∞:1 Displayable Scanning Frequency Horizontal 15 kHz to 92 kHz Vertical 24 Hz to 92 Hz Keystone Correction (Max.) Horizontal: +/-30 degrees Vertical: +/-30 degrees Accepted Signal Resolution Computer Signal Input Maximum signal resolution: 1920 x 1200 *4 Video Signal Input NTSC, PAL, SECAM, 480/60i, 576/50i, 480/60p, 576/50p, 720/60p, 720/50p, 1080/60i, 1080/50i, 1080/60p, 1080/50p, 3840/60p, 3840/30p, 3840/25p, 3840/24p, 4096/60p, 4096/30p, 4096/25p, 4096/24p INPUT / OUTPUT INPUT A RGB / Y PB PR input connector: Mini D-sub 15 pin (female) Audio input connector: Stereo mini jack INPUT B HDMI input connector: HDMI 19-pin, Digital RGB/Y PB PR, HDCP support Audio input connector: HDMI audio support INPUT C HDMI input connector: HDMI 19-pin, Digital RGB/Y PB PR, HDCP support Audio input connector: HDMI audio support INPUT D HDBaseT interface connector: RJ45, 4 play (Video, Audio, LAN, Control) VIDEO IN Video input connector: Phono jack (Composite) OUTPUT Audio output connector: Stereo mini jack Audio input connector: Shared with INPUT A REMOTE D-sub-9-pin (male) / RS232C. LAN RJ45, 10BASE-T / 100BASE-TX USB TYPE-A x 1 (for F/W update), TYPEA for Power supply Speaker 16 W Acoustic noise (Mode: Standard / Middle) *1 35 dB / 32 dB Operating Temperature / Operating Humidity 0°C to 40°C (32°F to 104°F) / 20% to 80% (no condensation) Storage Temperature / Storage Humidity -10°C to +60°C (14°F to +140°F) / 20% to 80% (no condensation) Power Requirements AC 100 V to 240 V, 4.7 A to 2.0 A, 50 Hz / 60 Hz Power Consumption AC 100 V to 120 V 463 W AC 220 V to 240 V 434 W Power Consumption (Standby Mode) AC 100 V to 120 V 0.5 W (when "Standby mode" is set to "Low") AC 220 V to 240 V 0.5 W	1.00	SETS

	(when “Standby mode” is set to “Low”). Power Consumption (Networked Standby Mode) AC 100 V to 120 V 1 W (LAN), 21 W (ALL Terminals and Networks Connected / exclude USB Device and speaker off, when “Standby Mode” is set to “Standard”) AC 220 V to 240 V 1 W (LAN), 21 W (ALL Terminals and Networks Connected / exclude USB Device and speaker off, when Standby Mode / Networked Standby Mode Activated Approx. 2 Minutes with 120 inch motorize projection screen Make: Sony / Barco / Christie or Equivalent		
17.00	<u>AUDIO INPUT/OUTPUT DEVICE</u> Connection Type USB Type-C / Design Desktop (2/3 19“, 1HU) Casing Full-metal casing / Power supply USB Type-C bus-powered, External 12 V AC adaptor / D/DA 32 bit / Maximum sample rate 192 kHz / Dynamic range input 102 [dB] / Total number of inputs 6 / Total number of individual outputs 4 / Total number of Outputs 6 / Microphone preamp D-PRE / Microphone inputs 4 / Inputs with line level 4 / Inputs with HI-Z 2 / Analog inputs TRS 2 / Analog inputs Combo 4 / Analog outputs TRS 6 / Phantom power 4 / Headphone With dedicated volume control / Headphones output 2 / MIDI I/O YES / Monitoring Latency free monitoring with FX / Onboard DSP SSP 3 / True Integrated Monitoring with FX in Cubase Yes / High-Pass filter Yes / REV-X Reverb Yes / Sweet Spot Morphing Channel Strip YES / Connection Type USB Type-C, USB 3.0, USB 2.0 / Operating systems MAC OS with Rosetta 2 App, WINDOWS AND IOS Make: Steinberg / RME / Universal Audio or Equivalent	1.00	NOS
19.00	<u>5.2 8K AV RECEIVER</u> 8K video, high-definition surround sound, Dolby TrueHD, and DTS HD Master Audio decoders. DTS HD Master / DTS:X DTS HD Master / DTS:X Number of Power Amps 5 Power Output 75 watts per channel (8 ohm, 20 Hz–20 Khz, 0.08% 2ch drive) 100 watts per channel (6 ohm, 1 kHz, 0.7% 2ch drive) 150 watts per channel (6 ohm, 1 kHz, 10% 1ch drive) Other Compatible with Remote App for Smart Phones Denon AVR Remote Auto Speaker Setup by Microphone Audyssey MultEQ Front Display 1-Line FLD GUI Languages English, Japanese, French. General System Remote Control RC-1258 Power Consumption 340W Power Consumption (No Sound, ECO on/off) 29W/39W Standby Consumption in W 0.1 CEC Standby Consumption in W 0.5 Maximum Dimensions (W × D × H) Antenna: Horizontal (in) Antenna: Vertical (in) 17.1 × 13.3 × 6.0 17.1 × 13.3 × 8.5 Weight (lbs) 17.2. Video HDMI Input 6 Multi-Room Video	1.00	NOS

	Out: Video, HDMI No Audio Analog In/Out 2/- Phono (MM) In Yes Digital in: Optical/Coaxial 2/1 Multi-Room Out: Analog, Digital No Multichannel Pre-Out Yes (0.2) Subwoofer Out 2 Other Number of Speaker Terminals 5. Make: Marantz / Denon / Yamaha or Equivalent		
D EDIT AND DUBBING SETUP WITH OTHERS ACCESSORIES			
20.00	<u>NLE / EDIT SETUP</u> iMac with M4 Chip 10-core CPU, 10-core GPU, 16-core Neural Engine. 60.96cm (24") 4.5K Retina display¹ 12MP Center Stage camera Four Thunderbolt 4 ports 3.5mm headphone jack Support for up to two external displays 4GB unified memory. 1TB SSD storage / Standard glass / Gigabit Ethernet port / Magic Mouse – Silver / US English Magic Keyboard with Touch ID and Numeric Keypad - Silver Make: Apple / HP / Dell or Equivalent	2.00	NOS
21.00	<u>COLOUR GRADING PANEL</u> Compact form with durable finish High resolution, long-life tracker balls with optical pickups High resolution, long-life knobs with optical pickups Knobs have a built-in "press to reset" switch Displays to indicate mode and function of many controls. USB plug-and play (HID device therefore no drivers are required) USB powered (so no need for external power supply) A single USB cable. 3x Programmable tracker balls with Master dials Individual reset buttons for ball and dial 2x Additional buttons for SHIFT / ALT etc. 9x Programmable buttons 9x Programmable knobs with integral push button resets 3x Displays to label programmable knobs and buttons 9x Programmable function buttons Standard transport controls with jog dial. Panel should be support Davinchi resolve, Smoke, SCRATCH grading tools. Make: Tangent / CP200 / Avid Color Artist or Equivalent	1.00	NOS
22.00	<u>Adobe Creative Cloud.</u> All Apps" plan with 20 creative desktop and mobile applications, including Photoshop / After Effects / Adobe Fresco / Media Encoder / Premiere / Animate / Dreamweaver / Lightroom Classic / Illustrator / Adobe Firefly / Audition / Bridge / Adobe Express / Lightroom / Capture / InDesign / Acrobat Reader / Photoshop Express / Fill & Sign Acrobat Pro / Character Animator / Adobe Scan. It also includes generative AI features (Firefly), 100GB of cloud storage, Adobe Fonts, and Adobe Portfolio for education. Make: Adobe or Equivalent	1.00	SETS
23.00	20tb 1big doc thunderbolt Storage. Capacity 20TB Dimensions: H x W x D 118mm/4.646in × 56.3mm/2.22in × 217mm/8.54in. Weight 1700g/3.748lb / macOS® 10.12, Windows® 10 or later. 1big Dock is an external hard drive and laptop docking station for filmmakers looking to centralise their desktop peripherals and store a massive portfolio of work with high-performance Thunderbolt 3	1.00	NOS

	technology Get 5-in-1 docking power with a built-in USB hub and charging station featuring CF and SD card reader slots, a DisplayPort 1.4 output, and dual Thunderbolt 3 ports for daisy chaining with universal USB compatibility. Enjoy best-in-class speed and reliability with a Seagate IronWolf Pro HDD for the most intensive film projects. Charge a USB-C Mac or other laptop with up to 60W of power through Thunderbolt 3 (up to 30W when daisy chaining other devices) — and even up to 70W of power pass through when using a laptop's power supply. For long-term peace of mind, 1big Dock includes a five-year product warranty with Rescue Data Recovery Services. Make: Lacie / Promise / Drobo or Equivalent		
24.00	ADVANCED AUDIO POST-PRODUCTION AUDIO DAW High-end Digital Audio Workstation (DAW) developed by Steinberg for: Film & TV Post-Production / Broadcast Audio Production / Game Audio Design / ADR & Dubbing / Surround & Immersive Mixing / Professional Sound Design. Category: Professional Audio Post-Production DAW Platform: Windows & macOS. Audio Engine: 64-bit processing engine Application Type: Native 64-bit software. Audio Resolution Up to 32-bit / 192 kHz / Internal Processing 64-bit floating point Audio Tracks Unlimited (hardware dependent) / MIDI Tracks Unlimited / Physical I/O Support Up to 256 channels. Group Channels Up to 256 FX Channels 64+ send/return channels Delay Compensation Fully automatic compensation. Surround & Immersive Audio Support. Supported formats include: Mono / Stereo LCRS / 5.1 / 7.1 Surround / Dolby Atmos (up to 9.1.6) / Auro-3D / Ambisonics (up to 4th order) / MPEG-H / 22.2 multichannel audio. Make: Nuendo / Cubase / Adobe or Equivalent	1.00	NOS
25.00	<u>APPLE SUITE. AUDIO VIDEO TOOLS</u> Professional Digital Audio Workstation (DAW) developed by Apple Inc. for: Music Production Audio Recording & Editing MIDI Composition Film Scoring Sound Design Mixing & Mastering 2. Core Audio Engine 64-bit audio processing engine Low-latency performance using Core Audio High-resolution audio support up to 24-bit / 192 kHz Non-destructive editing workflow Real-time processing 3. Recording & Editing Audio Recording Unlimited audio tracks (hardware dependent) Multitrack recording Punch-in / Punch-out recording Take folders & comping Flex Time & Flex Pitch editing Sample-accurate editing Time stretching Pitch correction Fade editing Region-based processing MIDI & Composition Tools Advanced MIDI editor Piano Roll editor Step Sequencer Score Editor (music notation) MIDI Transform & Humanize tools Smart Quantize Ideal for composers and music producers. Virtual Instruments Library Logic Pro includes a large professional sound library: Software Synthesizers Drum Machine Designer Sampler & Quick Sampler Alchemy Synth (advanced synthesis engine) Orchestral instruments Electronic & cinematic sounds Library size: 70+ GB professional sounds and loops. Built-In Effects & Processing Over 100 professional plug-ins	1.00	SETS

including: Channel EQ Compressor & Mult pressor Space Designer Convolution Reverb Delay Designer Amp Designer & Pedalboard Vintage EQ & Analog emulations Supports Audio Units (AU) plug-ins. Mixing & Automation Professional digital mixer Surround mixing capability Track stacks & bus routing Automation (volume, pan, plug-ins) VCA faders Gain staging tools Spatial & Immersive Audio Dolby Atmos music mixing support

Spatial audio monitoring Binaural rendering 3D panning tools Suitable for OTT and immersive audio production workflows. Smart Production Tools Smart Tempo (automatic tempo detection) Drummer (AI virtual session player) Live Loops grid performance mode Track Alternatives Arrangement Markers Video & Film Scoring Features Video playback synchronization SMPTE timecode support Marker & cue system Film scoring workflow Audio-to-picture editing.

Description

Professional non-linear video editing (NLE) application developed by Apple Inc. for:

- Film Editing Television Production Broadcast Content Creation OTT & Digital Media Production Documentary & Corporate Video Editing

2. Software Category

- Type: Non-Linear Editing (NLE) Software Platform: macOS only Processing Architecture: 64-bit Rendering Engine: Metal GPU acceleration

3. Video Format Support

Supported Resolutions

- SD, HD, Full HD 2K / 4K / 6K 8K video editing HDR workflows

Supported Formats

- Apple ProRes (all variants) H.264 / H.265 (HEVC) MOV, MP4 MXF (broadcast workflows) RED RAW Canon Cinema RAW Sony XAVC

4. Editing Features

- Magnetic Timeline (trackless editing) Multicam editing (up to 64 camera angles) Precision trimming tools Compound clips Keyword & metadata-based rganization Background rendering

5. Performance & Processing

- Optimized for Apple Silicon (M-series chips) GPU acceleration using Metal Engine

Real-time playback and effects processing Proxy media workflow for smooth editing Background transcoding

6. Color Correction & Grading

- Advanced color wheels Color curves & hue/saturation controls HDR color grading tools LUT support White balance & color matching Built-in scopes:

- o Waveform
- o Vectorscope
- o Histogram

7. Audio Editing Features

- Multichannel audio editing Audio lanes Built-in EQ & audio effects Voice isolation tools Loudness monitoring Role-based audio organization

8. Effects & Motion Graphics

- Built-in transitions and titles 2D & basic 3D titles Keyframe animation
- o Integration with: Motion (graphics creation)

	- o Compressor (encoding & delivery) 9. HDR & Professional Delivery • HDR10 HLG (Hybrid Log Gamma) Dolby Vision workflow Broadcast-safe output tools IMF and ProRes export workflows 10. Media Management • Library-based media organization Automatic backup Smart collections Metadata tagging Proxy & optimized media handling 11. System Requirements Operating System • macOS (latest supported version) 12. Integration & Compatibility • Native macOS integration Support for external monitors Thunderbolt storage systems Professional video I/O devices XML export for workflow exchange 13. Typical Applications • TV Studio Editing Suites University Media Labs Film & Documentary Production News & Broadcast Editing YouTube & OTT Production Studios High-performance professional video editing Advanced color grading & HDR workflow Multicam production capability Optimized Apple hardware performance Broadcast and cinema delivery formats Make: Apple or Equivalent		
26.00	<u>Non-linear video editing Tools:</u> Advanced professional post-production software Non-Linear Video Editing Advanced Color Grading Visual Effects (VFX) Motion Graphics Audio Post-Production Media Management & Delivery It combines editing, color, VFX, and audio workflows in a single application environment. Software Category Type: Integrated Post-Production Software Architecture: Native 64-bit Processing Engine: Editing Features (Edit Page) Professional non-linear editing timeline Multicam editing (up to 64 cameras) Trim tools & ripple editing Proxy workflow Smart media management AI-based scene cut detection Color Grading Capabilities (Color Page) DaVinci Resolve is industry standard for color correction. Features Node-based color grading Primary & secondary color correction HDR grading tools RAW color processing Tracking & masking tools Advanced scopes: Waveform Parade Vectorscope Histogram Supports cinema-grade color workflows. Visual Effects & Motion Graphics Node-based compositing system 2D & 3D compositing Motion graphics creation Green screen (Chroma Key) Particle systems Rotoscoping tools Camera tracking Audio Post-Production Professional digital audio workstation integrated: Up to 2000 audio tracks ADR tools Multichannel mixing Real-time effects processing Loudness compliance tools 3D audio & immersive sound workflows Supported Video Formats Resolutions SD / HD / Full HD. 2K / 4K / 6K 8K and higher workflows Codec Support ProRes DNxHD / DNxHR H.264 / H.265 RED RAW MXF / MOV / MP4 8. AI & Neural Engine Features Magic Mask (object tracking) Face refinement Smart reframing Speech-to-text transcription Voice isolation Auto color balancing Powered by DaVinci Neural Engine AI processing. Collaboration & Workflow. Multi-user collaboration Shared project	1.00	NOS

	databases Remote grading workflows Timeline locking. Cloud collaboration (Studio version). System Requirements Windows 10 / 11 (64-bit) Minimum 16 GB RAM (32 GB recommended) Dedicated GPU with 4 GB VRAM (8 GB recommended) macOS macOS latest supported version Apple Silicon optimized Metal GPU acceleration Linux. Tools having color correction, color grading, visual effects, and audio post-production option. Supported on professional workstation systems. Hardware Integration. Make: Resolve / Scratch / Smoke or Equivalent		
27.00	3PH in/out 10 KVA ONLINE UPS WITH 30 MINUTE BACKUP: Range 10 – 40 kW Input Voltage Range 260 - 476 Vac Input Power Factor > 0.99 THDi < 3% Input Frequency 45 - 65 Hz Output Voltage 380 / 400 / 415 V AC - AC Efficiency Up to 95% ECO Mode Up to 98% Isolation Transformer Integrated (Optional) Communication Option1 X RS232, 1 X RS485(Modbus), SNMP Slot Operating Temperature 0 - 40 ° C Display 5" Touch Screen LCD Display Panel Communication Port Battery Mode, Low Battery, Overload, Normal Alarm, Fault Technology Online double conversion VFI-SS-111 Waveform Pure sinewave Architecture Monolithic UPS parallelable upto 4 units Input voltage 380/400/415 VAC - 3PH + N + Earth Input frequency 45 - 55 Hz Input voltage range 320 VAC - 476 VAC Input THDi < 4% @ Rated linear load < 3% @ Rated linear load Input PF > 0.99 @ Rated linear load. Output voltage 400 VAC +/- 1% 3-Ph + N + E (Settable to 380/400/415 VAC) Efficiency in double conversion mode Upto 93% Upto 94% Upto 95% Output frequency (nominal) 50 Hz/60 Hz Crest factor 3:1 Overload capacity at online mode Upto 110% for 1 hour, 125% for 10 min & 150% for 1 min Overload capacity at bypass mode Upto 110% continuous & > 150% for 10 ms Efficiency in ECO mode > 98% Isolation transformer Optional, Integrated Battery type VRLA, LiB Internal/External batteries External Battery nominal VDC 240 VDC 480 VDC Common battery configuration Yes upto 2 UPS's Display 5" Touch screen LCD display to monitor UPS status in real time Communication port RS232, RS485, Relay contact Network interface Optional with SNMP REPO Yes Alarms & Signals All the required alarms & signals. Unit dimensions (W x H X D) 250 x 660 x 590 in mm Unit net weight 50 Kgs Operating temperature 0-40°C Degree of protection IP20 Relative humidity (%) 0-95% (non-condensing) Noise level at 1m (dBa) Max 65 dbA at 100% load. Safety IEC 62040-1 EMC IEC 62040-2 Performance & testing IEC 62040-3 Other *at 35 degrees Celsius. General tolerance +/- 2mm. Make: Numeric/ Legrand / Emerson or Equivalent	1.00	SETS
28.00	MULTI LANGUAGE SOFTWARE. Unicode Composition useful tools and utilities with RTF, TXT, Doc file conversion option. Spell check for two-byte Font layout support (SLX and Unicode) Font installation available with Family Avishkar Plus for SLX font layout for giving catchy effects to your advertisements, titles Additional Fonts in each available language 9 Pair Unicode fonts for each selected Language Hyphenation support for South Indian languages for SLX and Unicode font layout Sorting for Indian languages for SLX and	1.00	NOS

	Unicode font layout. Smart matra and validate matra for Indian language Automatic application selection. Unicode typing help Improved Symbol font previewer Symbol Font categorization and Keyboard short cuts Keyboard Tutor. Make: Shree Lipi / Indica / Unicode or Equivalent		
29.00	<u>SYSTEM RACK AND SUB-SYSTEMS AS PER LAYOUT:</u> <u>1. PCR/MCR and Electrical Room cubical:</u> Frame based separate cubicle has to be done for placement of equipment as per layout made of 19mm merino / century / greenlam) etc, grades like BWP, BWR and Termite/Borer Resistant. Frame structure will be of Partitioning will be made of good quality wood with High-pressure 1mm laminate sheet. Complete wiring & fixing of AV equipment's with conducting to be done. Proper racks have to be installed in cubical systems for all the sub systems and audio/video instruments accommodate all 19" rack mountable. Required wiring and conducting for cubicle to be done with consideration of all the equipment. Reputed make like Godrej, Hettich etc all lock , channels and others related equipment should be supply. The complete system has to be installed by the trained experts of the firm/OEM at the user defined site. Sub systems will be installed on the racks and operator consol~ provided by the firm. Ceiling for cubical made of 2x2 White Acoustic Ceiling Tiles with metal structure. Number of reputed make chair to supply as per specification and layout. <u>2. Wall & Ceiling Acoustic Treatment</u> (Absolute insulated room for sound diffusion & absorption.) Supply and fixing of first layer of asphalt free polymer based visco-elastic synthetic acoustic membrane Tecsound 70 having thickness of 3.0mm, using synthetic rubber adhesive with metal screw making a metal framework in high density polyester wadding echo bloc board of size 12mm to be placed at 600mm X 600mm with an air gap of 25 mm between acoustic membrane and metal framework to be made using isolation clips. The framework is to be filled with 60mm/ 1000 kg density polyester wadding kept in place using chicken wire mesh with 120 kg/m³ rockwool / geowool to enhance acoustic performance. 12 mm perforated board is to be fixed on top of the metal framework using screws and fasteners. Acoustic sound proof wall as mentioned above would be finished with recycled insulation ectopias, Fire Resistance, absorption coefficients NRC – 0.95 (ASTM C423 / ISO 354), Eco-friendly acoustic fabric to cover high-temperature fire rated acoustic foam. Acoustic foam to be finished using synthetic rubber adhesive and acoustics fabrics to affix using skin staplers Hand-held nailing tools. Acoustic fabric edge to be finished with hook-and-loop fasteners. For aesthetic appeal, look and sound absorption proper Sound absorption materials to be used to control echo and reverberation. Target Acoustic Performance (Reverberation Time (RT60) 0.3 – 0.45	1.00	JOB (As per floor layout)

	sec / Background Noise ≤ 30 dB(A) / Noise Criteria NC-20 to NC-25 / Wall Isolation STC 55+ / Speech Transmission Index ≥ 0.6). To control low-frequency buildup and standing waves, corner bass traps must be installed to improve overall acoustic accuracy. Canopus Cell Grid, Canopus Linear, or Canopus Pro Curve on the ceiling must be installed to reduce reverb and echo reflections where possible. 3. Studio, PCR/MCR and related floor area to be finished 5 mm PVC anti-static heavy-duty (or ESD conductive) flooring system to prevent electrostatic Discharge and use for high pedestrian traffic, wheeled equipment, and sensitive electronics. To ensure dissipates static buildup via conductive additives, maintain compliance with safety standards, and protects high-value electronics from invisible, spark-related damage. 4. 3 Nos of acoustics door to be finished using wadding of 500k9/cum density coated with FR Acrylic Sealant Sandwiched between two 3.5 mm Sound absorbing membrane. This frame is than sandwiched between two 8mm thick calcium silicate boards, faced with 9mm thick commercially green /merino /century having hardwood lipping and fire retardant 1mm thick laminate merino/century/greenlam facing on both sides in desired shade and color the door is complete with all high-quality hardware and acc. Like hinges, door closers, panic bar, handles and acoustic sealants with durable fabrics that look great on outer side. High Density Upholstery Foam 2" x24" x72". Fixing of the 4 side Chowkhats as per the design drawings out of the Miranti Wood complete as required including fixing with 150mm long fasteners with Nylon sleeves.		
30.00	Design, supply, testing & commissioning chroma (green screen) system and fixed shed. Chroma Area Setup Construction of a chroma shooting area within the studio floor using a combination of 9mm and 19mm plywood panels with vinyl overlay. The surface will be finished with Chroma light or Rosco chroma paint to provide a smooth, seamless, and reflection free background—ideal for high-quality chroma key compositing in video production. FINISH: Matte. SOLVENT: Water. BINDER TYPE: Vinyl Acrylic. SURFACE PREPARATION: Surfaces should be clean, dry and free from dirt and grease. Prime porous surfaces, except fabrics, using Tough Prime. COLOR SPECIFICATIONS: Color Phase Angle Luminance Chroma Key Green 242° 57 INFORMATION ON COMPONENTS. Weight-% Nepheline syenite 37244-96-5 15 - 20 Limestone 1317-65-3 15 - 20 Titanium dioxide 13463-67-7 1 - 5 2-Amino-2-methly-1-propanol 124-68-5 0.1 - 0.5 Optimised chroma Colours: Specifically formulated green for ideal phase angle and	1.00	JOB (As per floor layout)

	luminance values, vital for keying. The Presenter Table (Anchor Desk) shall be a custom-designed modern broadcast furniture unit intended for professional television studio production. The table shall combine aesthetic appearance, ergonomic comfort, and broadcast functionality, ensuring suitability for 4K video recording environments and made of 19mm merino / century / greenlam). The design shall reflect a Modern futuristic appearance and contemporary TV news studio style featuring clean geometry, curved profiles, illuminated accents, concealed cabling, and non-reflective finishes to prevent camera glare.		
31.00	<u>AIR CONDITIONER</u> Supply of 4 NOS Air Conditioning. 1TON 1 NOS, 2 TON 4 NOS Make: BlueStar / Daikin / Hitachi or Equivalent	4.00	NOS
32.00	<u>ELECTRICAL WIRE / EQUIPMENTS</u> Vendor needs to submit their design, layout drawing, electrical schematic drawing, wiring diagram, single line diagram and material / items specification make & model and detailed data sheet along with technical bid (Room Layout is attached). Vendor needs to provide power point with point-to-point wiring and socket assembly, LAN points for data communication, ceiling light and fans, MCB, Circuit Breakers, RCCB cabling as per the load calculation and earthing to all electrical appliances and racks as per the layout and requirement. Bidder should maintain preferred make during the installation. Laying of electrical cables of Polycab or equivalent brand from mains provided within the premise. P/F of switches / sockets of GM/ Anchor Roma or equivalent brand and conduits of Astral or equivalent. All MCB to be of Havells, ABB or Legrand or equivalent. This work includes complete installation, commissioning and functional testing. All accessories required such as compatible cables, connector, conduit, jointer, bends etc. and there laying, interconnection and termination for carrying out this works shall be included. Make: Legrand / ABB / Havells / Polycab	1.00	JOB (As per layout)
33.00	<u>STUDIO LIGHTING AND GRID</u> (As per floor layout and light positioning) SITC of 1ft x 1ft Studio soft Panel Light of 150W with minimum following Technical specifications • Light Source : Atleast 400 Nos LED SMD Source • Color Temperature : Inbetween 5450 K - 5750K through 0 - 100% Dimming Range • CRI & TLCI : > 96 • R9 : > 94 • Beam Angle : 100° • Lux output at 2 Mtr : > 1000 Lux	12.00	Nos

• Power supply Driver : IP65 or higher grade with pf >0.96 • Flickering Rate : more than 20000 FPS • Panel Light Dimensions should not exceed : 360mm x 360mm • Easily Detachable 4 Leaf barndoor Plug in Type • Accessory slot for Gel frame and Honey comb screen should be available or else fixture will be rejected. • Control Protocol : DMX & Manual • Fully RDM Compliant in DMX Mode • Manual Control via Touch pad. Tactile Switch for manual control fixture will be rejected. • Aluminium Housing to ensure the less weight Make: Canara Lighting / Martin / ARRI / ROBE		
SITC of 4 ft x 0.75 ft Studio soft Panel Light of 160W with minimum following Technical specifications • Light Source : Atleast 800 Nos LED SMD Source • Color Temperature : In-between 5450 K - 5750K through 0 - 100% Dimming Range • CRI & TLCI : > 96 • R9 : > 94 • Beam Angle : 100° • Lux output at 1 Mtr : > 4500 Lux • Power supply Driver : IP65 or higher grade with pf >0.96 • Flickering Rate : more than 20000 FPS • Panel Light Dimensions should not exceed : 1200mm x 225mm • Easily Detachable 4 Leaf barndoor Plug in Type. • Accessory slot for Gel frame and Honey comb screen should be available or else fixture will be rejected. • Control Protocol : DMX & Manual • Fully RDM Compliant in DMX Mode • Manual Control via Touch pad. Tactile Switch for manual control fixture will be rejected. • Aluminium Housing to ensure the less weight Make: Canara Lighting / Martin / ARRI / ROBE	6.00	Nos
Premium quality Fresnel spot light of 200W with minimum following technical specifications • Light Source: Single LED COB Source • Colour Temperature: 3200K • CRI & TLCI: > 95 • Beam Angle: 9° - 52° manual Zoom • Focusing mechanism of lights should be SS/Brass lead screw type for step less smooth zooming. Sliding type focusing mechanism shall not be acceptable. • Fresnel Lens Dia should not lesser than 200mm • Zooming function of Fresnel should be through pole operated yoke (POS). • Lux output at 2 Mtr : > 35,500 Lux @ 9° & > 2,000 Lux @ 52° • Power supply Driver : IP65 or higher grade with pf >0.96 @ 230V • Flickering Rate : more than 20000 FPS • Accessory slot for Gel frame and Gel Filter Frame should be available or else fixture will be rejected. • Control Protocol : DMX & Manual • Fully RDM Compliant in DMX Mode • Manual Control via Touch pad. Tactile Switch for manual control	4.00	Nos

fixture will be rejected. Make: Canara Lighting / Martin / ARRI / ROBE		
Die cast Aluminium C - Clamp with safety chain duly epoxy polyester powder coated in black matt texture finish and safe working load of 100kg with below specifications. • Lock - MS threaded Galvanized lock key, • Plastic Glass filled nylon moulded M6 key. • Receptacle - 28mm standard TV spigot. • Safety - MS Galvanized chain with pin. • Finish - Pretreated and black epoxy polyester powder coated. • Self-weight - 0.54Kg Make: Canara Lighting / Martin / ARRI / ROBE	22.00	Nos
Safety bond with lock clip 1.5 Mtr Long made with twisted pair of GI wire rope, 2mm or 3mm Thickness with sleeve to be fixed around the grid to avoid fall of the material in case if the "C" clamp is not locked properly. SWL 150Kgs. Make: Canara Lighting / Martin / ARRI / ROBE	22.00	Nos
79mm Round Identification name plate duly epoxy polyester powder coated in matt texture finish. Make: Canara Lighting / Martin / ARRI / ROBE	22.00	Nos
SITC of MS Pipe of Class 'B' 48mm OD to be used for making 1x1mtr square matrix grid used for suspending Lighting fixtures and other equipment for fulfilling all the requirement for Studio Lighting.	360.00	Meters
SITC of Customized MS Suspenders made up of • MS fish plate 150 x 150 x 6 mm with hardware's if required as per site condition • Height adjustable M12 stud of suitable length as per site requirement along with suitable hardware's with pipe coupler clamp. (As per site requirement). • All the materials under gone through 7 tank process with various chemical treatment to keep them rust free with and duly epoxy polyester powder coated in black matt texture finish.	60.00	Nos
SITC of MS Fabricated 4 way 10A, 250V A.C, IEC, Lighting Junction box made up of 22SWG CRCA for LED lighting fixtures with Pipe clamp arrangement for fixing on pipe grid or Raul plug arrangement for wall/floor fixing, duly black epoxy polyester powder coated texture finish. Make: Canara Lighting / Liteputer / Nutrik / Amphenol	15.00	Nos
SITC of MS Fabricated 2 way 10A, 250V A.C, IEC, Junction box made up of 22SWG CRCA with rocker switch to power up splitter and console with Pipe clamp on pipe grid arrangement for fixing or Raul plug arrangement for wall/floor fixing, duly black epoxy polyester powder coated texture finish. Make: Canara Lighting / Liteputer / Nutrik / Amphenol	3.00	Nos
SITC of MS Fabricated 5 pin DMX Signal IN Junction box fitted with 5 pin DMX Male socket, junction box made up of 22SWG CRCA, with Pipe clamp on pipe grid arrangement for fixing or Raul plug arrangement for wall/floor fixing, black epoxy polyester powder coated, duly black epoxy polyester powder coated texture finish. Make: Canara Lighting / Liteputer / Nutrik / Amphenol	1.00	Nos
SITC of MS Fabricated 5 pin DMX Signal OUT Junction box fitted with 5 pin DMX female socket, junction box made up of 22SWG CRCA, with	8.00	Nos

Pipe clamp on pipe grid arrangement for fixing or Raul plug arrangement for wall/floor fixing, black epoxy polyester powder coated, duly black epoxy polyester powder coated texture finish. Make: Canara Lighting / Liteputer / Nutrik / Amphenol		
SITC of Fabricated 5 pin DMX Signal loop Junction box fitted with 5 pin DMX Male & Female socket with 0.3 Mtr DMX Loop cable fitted with 5 pin DMX cable mount plug, junction box made up of 22SWG CRCA, with Pipe clamp on pipe grid arrangement for fixing or Raul plug arrangement for wall/floor fixing, black epoxy polyester powder coated, duly black epoxy polyester powder coated texture finish. Make: Canara Lighting / Liteputer / Nutrik / Amphenol	1.00	Nos
SITC of MS Fabricated Direct Lighting Distribution Board fitted with Suitable TPN Incomer and 15 Way SP MCB Panel, RYB Indicators and suitable size gland for Incomer and outgoing cables with Terminal connectors & FRLS Grade cables for internal wiring and door, duly epoxy polyester powder coated. Make: Canara Lighting / L&T / Siemens / ABB	1.00	Nos
SITC of RDM Compatible DMX Splitter unit with Minimum following specifications. • 1 Nos 5 Pin DMX In socket and 8 Nos 5 Pin DMX Out socket • In and out signal Optically Isolated • LED Indicator for check the signal flow in each output. • Suitable for standard 19" cabinet • Duly black epoxy polyester powder coated texture finish. Make: Canara Lighting / Liteputer / Zero88 / Avolite	1.00	Nos
SITC of RDM Compatible Digital Lighting console with Minimum following specifications. • 1024 Channel, 2 Universe, • 3 or 4 nos of DMX 5 Pin output. • No. Of Direct Fixture Control: Atleast 120 • No. Of Faders: Atleast 20 • No. Of Submasters: Atleast 12 • 3 Encoder Wheels • LCD screen Display for Navigation • Should support ART-NET Port • Fully RDM Compliant in DMX Mode Make: Canara Lighting / Liteputer / Zero88 / Avolite	1.00	Nos
SITC of 5 pin XLR male / female connectors of made up of Extra high temperature resistant insulator material, Larger solder contacts for easier termination.	12.00	Nos
SITC of 5 Pin XLR Termination plug made up of extra high temperature resistant insulator material, larger solder contacts for easier termination with 120 Ohm resister with 0.25Watt for signal termination.	8.00	Nos
SITC of PVC Copper unarmoured flexible FRLS insulated multicore cable 1100V grade confirming to IS694 size 3cx1.5 sq mm.	550.00	Meters
SITC of DMX Signal cable 2 or 4 core + Ground shielding Cable for the Signal network.	200.00	Meters
SITC of MS perforated tray of Size 40 x 75 x 40mm & 1.6 mm Thickness undergone through 7 tank process with various chemical treatment to keep them rust free, duly epoxy polyester powder coated with Matt black texture finish along with clamping arrangement.	80.00	Meters
SITC of Internal earthing copper bare conductor of size 14 SWG for		Lot

	power network related to work coming under our scope.	1.00	
	SITC of Installation hardware's such as clamps, connectors, glands, lugs, ferrules, welding rods and miscellaneous items required during installation work.	1.00	Lot
34.00	<u>Installation, Testing, Commissioning, programming with 3 years Comprehensive warranty with end-to-end range of assistance up to 24 weeks.</u> Install all supplied equipment as per approved layout drawings. Provide equipment rack installation with proper ventilation. Ensure proper mounting of speakers, lights, displays, cameras, control panels etc. Provide structured cable routing through: Cable trays, Conduits, Raceways, Floor ducts (if applicable), Ensure proper earthing and grounding of all equipment. Label all cables, connectors and equipment clearly. Maintain neat and professional workmanship. All cables shall be of professional-grade, branded and ISI/CE certified. Cables shall be flame-retardant and suitable for indoor studio installation. No joints shall be permitted in signal cables unless approved. Program DSP, audio processors, lighting consoles, control systems, and automation systems. Configure IP addresses and network settings (If applicable). Program presets and user profiles. Configure scene memory for studio lighting. Ensure seamless integration between audio, video and control systems. Provide password-protected administrator access. All software licenses must be genuine and transferred to the client. Conduct complete system testing. Perform audio tuning and acoustic calibration. Test signal flow from source to output. Perform lighting focus and scene programming. Minimum 7 days onsite training. Hands-on training for technical staff. System operation procedures. Preset management. Basic troubleshooting guidance. At Vendor Scope *Acoustic performance test report should be certified by Government institute HOD. *Lighting lux measurement report to be submit by lighting manufacturer with technical bid. Any of installed lights Lux measurement will be checked after installation. *Audio video and electrical Signal flow documentation. *7-day technical training. As-built drawings. *Operation & maintenance manuals. Make: Neutrik / Belden/ Milestone Pro / Manhattan or equivalent	1.00	JOB
Tender Pre-Qualification Criteria			

1.00	Video Switcher, recorder, talkback, Video I/O card and required accessories should be from the same OEM to avoid Integration, support & compatibility issues.
2.00	Audio Mixer, Speakers, Amplifier, Crossover and related accessories should be from the same OEM to avoid Integration, support & compatibility issues.
3.00	Bidder should quote for all components/ products as asked in the tender. Non-compliance shall result in the rejection of the tender.
4.00	The Bidder shall quote composite price inclusive of Supply, Installation, Testing, Commissioning, Training & all Taxes.
5.00	No deviations in the specifications of any of the above items will be accepted.
6.00	Successful bidder has to provide 3 years on-site OEM Warranty on all equipment's.
7.00	Only those Financial Bids will be opened and evaluated which are found to fulfil all the eligibility.
8.00	The bidder should have a branch office in Kolkata operational for last 5 (five) years within 50 KM from site location Valid address proof is to be uploaded with bid.
9.00	Bidder should have minimum three years' experience in this field. Bidder has to upload the copies of contracts/work orders executed with valid satisfactory work completion certificate/CARC/Installation report with customer stamp and sign issued by the Competent Authority with the bid in support of Past Experience of Similar works. The certificates should clearly indicate the duration of the work done with the concerned organization along with name, address of the client/organization. It should be noted that the only work orders/contract copy shall not be considered by the Institute as a proof of experience cum performance certificate.
10.00	Bidder should provide product link from OEM website, 3 years warranty / Extended warranty declaration with make and model on OEM letter head along with the Technical Bid. Non-compliance shall result in rejection of tender.
11.00	Bidder should provide compliance certificates and declaration that this URL shall not be tampered with after bid submission.
12.00	Bidder should provide Tender and Product specific Authorization for AV and Lighting equipment's.
14.00	OEM should be Registered in India from Last 15 Years. Documents to be attached along with Technical Bid.
15.00	TESTING & COMMISSIONING
	Vendor shall provide:
A	Acoustic performance test report should be certified by Govt institute HOD.
B	Lighting lux measurement report to be submit by lighting manufacturer with technical bid. Any of installed lights Lux measurement will be checked after installation.
C	Audio video and electrical Signal flow documentation.
D	7-day technical training.
E	As-built drawings and 2D/3D model of complete studio, PCR/MCR and electrical rooms.
F	Operation & maintenance manuals.
16.00	This works includes design, supply, installation, commissioning and warranty (wherever applicable) of various components required.
17.00	Any item beyond the specified items in above table for completing the project will be in the scope of vendor and it will be the responsibility of vendor to make the fully functional.

B.O.Q:-

S/L	PRODUCT DESCRIPTION	MAKE or Equivalent	MODEL or Equivalent	QTY	UNIT
1.00	4K PRODUCTION CAMERA	SONY	PXW-Z300	1.00	NOS
2.00	4K PRODUCTION CAMERA	SONY	PXW-Z200	2.00	NOS
3.00	BATTERY AND CARD READER	SONY	SF-G128T & BP-U70	2.00	SET S
4.00	STUDIO TRIPOD	KRATOS	EN12G-AL	3.00	NOS
5.00	TELEPROMPTER REMOTE CLIENT	LENOVO	THINKPAD	1.00	NOS
6.00	TELEPROMPTER	FORTINGE	PROX-17	1.00	NOS
7.00	4K VIDEO LIVE PRODUCTION SWITCHER	DATAVIDEO	SE-4000	1.00	NOS
8.00	PRORES 4K VIDEO RECORDER WITH ACCESSORIES.	DATAVIDEO	HDR-80	1.00	NOS
9.00	WIRED PROFESSIONAL TALKBACK SYSTEM	DATAVIDEO	ITC-100	1.00	NOS
10.00	AUDIO MIXING CONSOLE	SONODYNE	SMX-1124	1.00	NOS
11.00	WIRELESS LAVILIER SET	SENNHEISER	EW-D ME2	3.00	NOS
12.00	MICROPHONE	SENNHEISER	E-945	1.00	NOS
13.00	43 INCH TV	SONY	FW43BZ30L	1.00	NOS
14.00	5.2 AUDIO PROJECTION SYSTEMS	SONODYNE	CUSTOM	1.00	SET S
15.00	PCR/MCR AUDIO MONITOR	SONODYNE	SRP-601	2.00	NOS
16.00	PROJECTION SYSTEMS	SONY	VPL-PHZ51	1.00	SET S
17.00	AUDIO I/O CARD	STEINBERG	UR44C	1.00	NOS
18.00	4K VIDEO I/O CARD	DATAVIDEO	CAP-4	1.00	NOS
19.00	5.2 8K AV RECEIVER	DENON	AVR-S670H	1.00	NOS
20.00	NLE / EDIT SETUP	APPLE	M4 IMAC	2.00	NOS

21.0 0	COLOUR GRADING PANEL	TANGENT	WAVE-2	1.00	NOS
22.0 0	ADOBE CREATIVE CLOUD. FOR 3 YEARS SINGLE USER	ADOBE	LATEST VER WITH ALL APPS	3.00	NOS
23.0 0	20TB STORAGE	LACIE	20BIG	1.00	NOS
24.0 0	ADVANCED AUDIO POST-PRODUCTION AUDIO DAW	STEINBERG	NUENDO	1.00	NOS
25.0 0	APPLE SUITE. AUDIO VIDEO TOOLS	APPLE	LOGIC & FCPX	1.00	SET S
26.0 0	NON-LINEAR VIDEO EDITING, COLOR TOOLS.	DAVINCHI	RESOLVE	1.00	NOS
27.0 0	UPS	NUMERIC	HPI 33 EVO	1.00	SET S
28.0 0	LANGUGE SOFTWARE	SREELIPI	UNICODE	1.00	NOS
29.0 0	STUDIO ACOUSTIC AND CUBICAL	TELERAD	CUSTOM	1.00	JOB
30.0 0	STUDIO CHROMA AND FIXED SHED	TELERAD	CUSTOM	1.00	JOB
31.0 0	1 TON 1 NOS + 2 TON 3 NOS SPLIT	BLUE STAR		4.00	NOS
32.0 0	ELECTRICAL WIRE / EQUIPMENTS	HEVELS	HEVELS	1.00	JOB
33.0 0	STUDIO LIGHTING SYSTEMS	CANARA	CANARA	1.00	JOB
34.0 0	INSTALLATION	TELERAD	TELERAD	1.00	JOB

E.M.D.

Earnest Money (EMD):- Intending bidders are requested to deposit Rs. 300000/- online through his net banking enabled bank account, maintained at any bank or: offline – through any bank generating NEFT/RTGS challan from the e-tendering portal. Intending bidder will get the beneficiary details from e-tender portal with the help of Digital Signature Certificate and may transfer the EMD from their respective Bank as per the Beneficiary Name & Account No., Amount, Beneficiary Bank name (ICICI Bank) & IFSC Code and e-Proc Ref No. Intending bidder who wants to transfer EMD through NEFT/RTGS must read the instruction of the Challan generated from E-Procurement site.

(Bidders are also advised to submit EMD of their bid, at least 3 working days before the bid submission closing date as it requires considerable time for processing of Payment of EMD.)

N.B.: During evaluation of the tender, the bidder may be requested to produce original hard copy of any of the documents for verification, failing which his/her tender will be liable to rejection.

Important Dates:

Sl. No.	Items	Publishing Date (s)
1	Date of uploading of N.I.T. & Tender documents (online) from this end	10.03.2026; 06:00 pm
2	Documents downloading, starting date (online)	10.03.2026; 06:00 pm
3	Pre-Bid Meeting Date (PPT Presentation – Media Lab) Pre-Bid Meeting Address: Meeting room at the 1 st floor Darbhanga Building, College Street Campus, University of Calcutta.	On or after 16.03.2026; 04:00 PM
4	Bid submission, starting date (online)	10.03.2026; 06:00 pm
5	Bid submission, closing date (online)	31.03.2026; 06:00 pm
6	Bid opening date for technical proposal (online)	02.04.2026; 06:00 pm
7	Date of uploading of the list of technically qualified bidder (online)	To be communicated later
8	Date and place for the opening of financial proposal (online)	To be communicated later
9	Date of uploading of the list of bidders along with the approved rate	To be communicated later

Instructions / guidelines for electronic submission of tenders have been annexed for assisting the contractors to participate in e- tendering.

- I. Registration of Bidder:** - Any bidder willing to take part in the process of e –tendering will have to be enrolled & registered with the Government e – Procurement system through logging on to <https://wbtennders.gov.in>. The bidder is to click on the link for e – Tendering site as given on the web portal.
- II. Digital Signature Certificate (DSC):** - Each bidder is required to obtain a class - II or class – III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider.
- III. Collection of Tender documents:** - The bidder can search & download NIT & Tender documents electronically from computer once he/she logs on to the website mentioned in Clause 1 using the Digital Signature Certificate. This is the only mode of collection of Tender documents.

IV. Cost of Earnest Money (EMD)

Earnest Money (EMD) Quoted INR
Rs. 300000/- (To be deposited Online)

V. Submission of Tenders:-

- a. **General process of submission:** - Tenders are to be submitted through online to the website <https://wbtenders.gov.in> in two folders at a time for each work, one is Technical bid and other is Financial Bid, before the prescribed date and time using the Digital Signature Certificates.
- b. **Technical Bid:-** Technical Bid contains scanned copies of the followings further in two covers (folder)
- c. **Online bid submission (Bidder/Contractor) process** in <https://wbtenders.gov.in> portal, download the pdf file.
<https://wbtenders.gov.in/>

VI. Statutory Cover Containing

- i. For NIT and Corrigendum if any (Download the NIT and upload the same by through digital signature).

VII. NON-STATUTORY DOCUMENTS containing the following documents (Up to date as on date):

Sl.No.	Category	Sub Category	Sub-Category Description
A.	Certificates	Certificates	1. PAN Card, EPF & ESI Registration.
			2. Professional Tax Registration Certificate
			3. GST Registration Certificate
			4. Valid Trade License in similar nature of job.
			5. Fresh Bank Solvency Certificate from scheduled or nationalized bank for at least Rs. 1.00 Crore only.
			6. The Bidder should be neither blacklisted by any Government Dept., nor is any criminal case registered/ pending against the bidder or its owner/ partners anywhere in India. A duly completed notarized certificate to this effect is to be submitted as per Annexure-I.
B.	Credential	Credential for satisfactory completion of similar nature of job amounting to 75% of the quoted value in a single tender in the last three (03) financial years in Government, or Government Undertaking or any State Aided University. Only completion certificate of the work will be considered as Credential of works.	
C.	Financial Information	1. The average annual turnover of the previous three financial years (2022-23, 2023-24 & 2024-25) should be at least Rs. 5.00 Crore. Duly completed Annexure-II along with copies of duly signed profit & loss accounts and audited balance sheets are to be submitted.	

Online Bid Submission Procedure

Cover-1: The file should be saved in a PDF version and should comprise of the following items:

- **Packet-1:** Duly Completed Scanned PDF of Registration Certificate Details.

- [Packet-2](#): Duly Completed Scanned PDF of PAN Card.
- [Packet-3](#): Duly Completed Scanned PDF of GSTIN (The participant bidder or agency must submit a self-declaration mentioning that the GST payment has been up-to-date and there is no default of GST payment with duly signed supporting documents)
- [Packet-4](#): Duly Completed Scanned PDF of EPF Registration.
- [Packet-5](#): Duly Completed Scanned PDF of ESI Registration.
- [Packet-6](#): Scanned PDF of Address Proof of Bidder's Office in Kolkata.
- [Packet-7](#): Scanned PDF of Bank Solvency Certificate.
- [Packet-8](#): Scanned PDF of this document (Modified NIT) (*duly signed and stamped on each page*).

Cover-2: The file should be saved in a PDF version and should comprise of the following items:

- [Packet-1](#): Duly Completed Scanned PDF copy of Annexure-I.
- [Packet-2](#): Duly Completed Scanned PDF copy of Annexure-II.
- [Packet-3](#): Duly Completed Scanned PDF copy of Annexure-III with supporting documents.
- [Packet-4](#): Duly Completed Scanned PDF copy of Annexure-IV with supporting documents.
- [Packet-5](#): Duly Completed Scanned PDF copy of Annexure-V with supporting documents.
- [Packet-6](#): Duly Completed Scanned PDF copy of Annexure-VI.

Cover-3: The BOQ should be downloaded from the website and should comprise of the following item:

[Packet-1](#): Financial Bid in XLS version Filled with all relevant information.

Note: Failure of submission of any of the above mentioned documents, the tender will be rejected.

VIII. Financial Bid:- BOQ in INR (in excel sheet)

- The financial bid should contain the following documents in one cover (folder) i.e. Bill of Quantities (BOQ). The Bidder has to quote the rate through online in the space marked for quoting rate in the BOQ.
- Only downloaded copies of the above documents are to be uploaded, virus scanned & digitally signed by the contractor.

IX. Opening & Evaluation of Tender:-

Opening of Technical Bid:

- Technical bid will be opened by the Central Tender Committee. Intending bidders may remain present if they so desire. Statutory Cover (folder) would be opened first & if found in order and correct Non Statutory Cover (folder) will be opened. If there be any deficiency in the Statutory & Non statutory documents the tender will summarily be rejected.
- Decrypted (transformed in to readable formats) documents of the non statutory cover will be downloaded & handed over to the evaluation committee.
- List of technically qualified bidders would be uploaded.

NB: While evaluation, the Tender committee may invite the bidders & seek clarification/ information or additional documents or original hard copy of any of the documents already submitted. For any anomaly or deviation in this regard, his/her tender will be rejected.

X. Opening and evaluation of Financial Bid:

Financial bid of bidders declared technically eligible by the Committee will be opened electronically from the web portal on the prescribed date and time.

XI. Penalty for suppression / distortion of facts:

Submission of false document by bidder is strictly prohibited and will be liable for rejection of the tender and blacklisted.

XII. Rejection of Bid:

Tender Committee reserves the right to accept or reject any Bid and to cancel the Bidding processes & reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Tender Committee's action.

Sd/-
Registrar
University of Calcutta

EVALUATION OF BID

The Bidder would be selected on the basis of Quality and Cost Based Selection (QCBS) i.e. on the basis of ranking and evaluation of Technical and Financial Bids by the concerned Tender Committee of the University and Committee's decision would be final. The Committee will decide on the parameters to be used for determining the suitability and adequacy of the bids.

The process of selection of the successful bidder would be determined as under:

Stage – 1: Verification of Technical Eligibility

Only those bidders who satisfy the required technical criteria would be considered eligible for Stage – 2.

Stage – 2: Technical Criteria Evaluation

Following parameters carrying 100 marks will be used to evaluate the Bidder's technical credentials.

Sl. No.	Particular	Marks Breakup		Allocation of Marks		
				Min.	Max.	Actual
1.	Firm's existence as per tender.	5 to 7 Years	5	5	20	
		> 07 to 09 Years	10			
		>09 to 10Years	15			
		> 10 Years	20			
2.	Average annual turn over of the previous three years.	05 to 10 Crores	5	5	20	
		> 10 to 20 Crores	10			
		>20Cr to 30Cr	15			
		>30Crores	20			
3.	Number of years' experience with credentials of similar nature of works (completion certificate will only be considered)	03 to 5 Years	5	5	20	
		> 05 to 08 Years	10			
		>08 to 10Years	15			
		> 10 Years	20			
4.	Operational Contracts as per tender clause 7(f)	2 to 3 Contracts	5	5	20	
		4 to 5 Contracts	10			
		> 5 to 10Contracts	15			
		>10Contracts	20			
5.	PPT Presentation (Media Lab)	05 to 10 marks	5	5	20	
		10 to 15 marks	10			
		> 15 to 20 marks	20			
	Total Marks of Stage -2 Evaluation	Maximum Marks	100			
		Qualifying Marks	50			

Only those bidders who will score minimum 50 (out of maximum 100) in technical evaluation will be considered eligible for next stage.

The marks of technical evaluation is normalized in the scale of 10 as under:

$$\text{Score} = \frac{\text{Technical Bid Marks in Technical Bid obtained by the Bidder} \times 10}{\text{Highest marks of Technical Bid obtained by any Bidder}}$$

For example, consider total marks obtained in technical evaluation by three bidders A, B & C are as follows:

Bidder	Total Marks of Technical Evaluation
A	80
B	55
C	90

Then the technical scores for the bidders would be as follows:

Bidder	Technical Score (TS)
A	8.89
B	6.11
C	10.00

Stage – 3: Financial Bid Evaluation

The financial bids of bidders who have scored minimum of 50% marks in each of the stage- 2 will be opened.

Note: Bidders quoting NIL or Negative of any items will be cancelled from the tendering process.

The financial bid is mapped in the scale of 10 as under:

Financial Bid score=

$$\frac{\text{Lowest Quoted by any Bidder} \times 10}{\text{Quoted by the Bidder}}$$

For example, consider the three bidders A, B & C quoted the following rates

Bidder	Quoted in Rs.
A	425
B	300
C	850

Then financial score of the bidders would be as follows:

Bidder	Financial Score (FS)
A	7.06
B	10.0
C	3.53

Stage-4: Combiner Score and Successful Bidder

The score of technical proposal would be given 70% weightage, and the financial proposal would be given 30 % weightage. The weighted combine score combining technical bid score (TS) and financial bid score (FS) shall be used to rank the bidders on the basis of formula as given below:

$$\text{Combined Score} = 70\% * TS + 30\% * FS.$$

For the given example, the normalised Combined Score would be as follows:

Bidder	Technical Score (TS)	Financial Score (FS)	Combined Score (0.7*TS + 0.3*FS)	Remarks
A	8.89	7.06	8.341	Successful Bidder
B	6.11	10.0	7.277	
C	10.00	3.53	8.059	

- The successful bidder will be the one who has the maximum combined score.

IMPORTANT: The portal recommended L₁ bidder in financial bid may not be the winner of the tender.

GENERAL TERMS AND CONDITIONS OF THE CONTRACT

1. Awarding of Contract

University of Calcutta will award the contract to the successful bidder whose bid has been valued as per price and other criteria. University of Calcutta reserves the right not to accept the lowest price bid without assigning any reason whatsoever and the bidder will not challenge such decision in any forum whatsoever. University of Calcutta also reserves the right to split the order and / or drop any line item as per requirement. The successful bidder will have to give security deposit of 5% of total value (Govt. Finance Rule 171 (i), Dt. 01.01.2024) of the letter of intent (LOI) in the form of BANK GUARANTEE and it should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations. After receiving the Performance security in form of Bank Guarantee from any Nationalized Bank, work order will be issued.

2. Refund of Earnest Money Deposit (EMD): Earnest Money Deposit (EMD) furnished by all unsuccessful bidders should be returned to them without any interest whatsoever, at the earliest after the expiry of the final bid validity period but not later than forty five days after the award of the contract. Earnest Money Deposit (EMD) of the successful tenderer should be returned, without any interest whatsoever, after receipt of performance security Deposit from him as stipulated in the contract.

3. Forfeiture of Earnest Money Deposit (EMD): Earnest Money Deposit (EMD) of a tenderer shall be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of his tender. Further, if the successful tenderer fails to furnish the required performance security within the specified period, his Earnest Money Deposit (EMD) shall be forfeited.

4. Security Deposit : The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as **Security Deposit**. This will be released after a period of six months from the date of completion of the work on application.

5. Refund of Performance Security: Performance Security will be refunded to the contractor without any interest, whatsoever, after he/she duly performs and completes the contract in all respects but not later than sixty days of completion of all such obligations under the contract.

6. Forfeiture of Performance Security deposit : Performance security will be forfeited and credited to University of Calcutta in the event of a breach of contract by the tenderers, in terms of the relevant contract.

7. Verification of the Bank Guarantees: Bank Guarantees submitted by the tenderers as Earnest Money Deposit (EMD)/Performance Security need to be immediately verified from the issuing bank before its acceptance, through written communication.

8. The materials brought to site for execution of the work should by no means be taken out of site without the permission of the Registrar, C.U.

9. The University will not be bound to accept the lowest bidder.

10. The contractor will have to take necessary instruction from the **Registrar, University of Calcutta** regarding the execution of work.

11. After issuing the work order to the successful tenderer, if he/she fails to commence the work or unable to complete the work, then the EMD and Performance security amount of the said tenderer will be forfeited and no claim will be entertained.

12. Termination Clause:

- i. Failing to supply and commissioning of the items as per work order within the stipulated time, the contract will be rejected except application of Force majeure Clause and EMD will be forfeited.
- ii. If any deviation of quality and specification from the stipulated specification as per B.O.Q observed, the purchase order will be cancelled and EMD will be forfeited.
- iii. In case of deterioration of service the Work order will be cancelled as per rule and EMD may be forfeited.

13. Force majeure Clause: If the work(s) be delayed for the following reasons:-

Due to war, internal emergency and other conditions such as abnormally bad weather, flood, cyclone natural calamity or serious loss or damage by fire or civil commotion, the contractor shall immediately give notice thereof in writing to the Central Tender Committee but shall nevertheless use constantly his/her best endeavors to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the Central Tender Committee to proceed with the works.

14. Mode of payment: -

After completion of the work as per work order or any subsequent work order against the original work order the triplicates bills (RA/Final bill) duly checked and verified by the concern department with the completion certificate by the concern department and should be submitted to the office of the undersigned within 10 days after completion of the work.



Registrar
University of Calcutta

ANNEXURE – I
(To be provided on letter head of the Bidder)

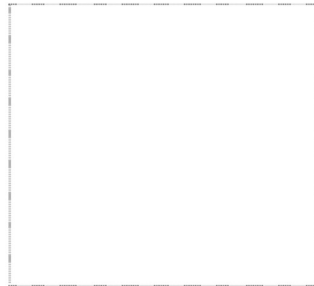
Ref : - E-Tender No. : R/157/26

I hereby certify that our firm neither blacklisted by any Central/State Government/Public Undertaking/Institute nor is 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 details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm blacklisted.

Date:

Place:



Seal

Authorized Signatory

Name:

Designation:

Contact No.:

Email:

ANNEXURE – II

ANNUAL TURNOVER DETAILS

Ref : - E-Tender No. : R/157/26

Bidder's Annual Turnover for last three Financial Years		
Sl. No.	Financial Year	Turnover in Rs.
1	2022-23	
2	2023-24	
3	2024-25	

Note: Supporting documents (copies of duly signed profit & loss accounts and audited balance sheet) are to be attached along with the Annexure-IV.

Date:



Authorized Signatory

Name:

Designation:

Contact No.:

Email:

Place:

ANNEXURE – III

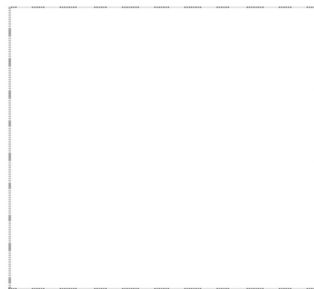
EXPERIENCE DETAILS

Ref : - E-Tender No. : R/157/26

List of Completed Housekeeping Service Contracts					
Sl. No.	Name of the Client with contact details	Order No. & Date	Duration		Contract Value
			From	To	
1					
2					
3					
4					
5					

Note: Supporting documents (work order and work completion certificate issued by the clients) are to be attached along with the Annexure-III.

Date:



Seal

Authorized Signatory

Name:

Designation:

Contact No.:

Email:

Place:

ANNEXURE – IV
RUNNING CONTRACT DETAILS

Ref : - E-Tender No. : R/157/26

Sl. No.	Name of the Client with Contact Details	Order No. & Date	Contract Value
1			
2			
3			
4			

Note: Supporting documents (work order issued by the clients and performance certificate from clients) are to be attached along with the Annexure-IV.

Date:



Authorized Signatory

Name:

Designation:

Contact No.:

Email:

Place:

ANNEXURE – V

ELIGIBILITY AND TECHNICAL COMPLIANCE SHEET

Ref : - E-Tender No. : R/157/26

Sl. No.	Particulars	Compliance by the Bidder (Yes / No.)
1	Scope of Work as per tender document	
2	Tender Fee and EMD as per tender document	
3	Incorporation/Establishment Certificate as per tender document	
4	PAN Card as per tender document	
5	GST Registration Certificate as per tender document with self-declaration as per statutory documents.	
6	EPF Registration as per tender document	
7	ESI Registration as per tender document	
8	Labour License as per tender document	
9	Address Proof of Kolkata Office as per tender document	
10	Bank Solvency Certificate as per tender document	
11	Blacklisted Certificate as per tender document [Annexure-I]	
12	Annual Turnover details as per tender document (Signed Profit & Loss Accounts and Audited Balance Sheets of previous three years as supporting documents) [Annexure-II]	
13	Experience details as per tender document [Annexure-III]	
14	Running Contract as per tender document (Work Completion Certificates as supporting documents) [Annexure-IV]	
15	Company profile [Annexure-VI]	

Place:

Seal



Date:

Authorized Signatory
Name: Designation:

Contact No:

ANNEXURE – VI

COMPANY PROFILE

Ref : - E-Tender No. : R/157/26

Name of the Party		
Date of Incorporation/ Establishment		
PAN Number		
GST Identification Number		
EPF Registration		
ESI Registration		
Labour License		
Office Postal Address		
Local (Kolkata) Office Address		
Authorized Signatory Details (Company/Firm Authorization by the competent authority, to be attached)	Name	
	Designation	
	Email	
	Phone	
Details of Contact other than Authorized Signatory	Name	
	Designation	
	Email	
	Phone	
Contact Details of the In-charge of Kolkata Office	Name	
	Designation	
	Email	
	Phone	

Date:



Place:

Authorized Signatory

Name:

Designation:

Contact No.:

Email: