

**Corrigendum for Tender specification for
Supplying installation maintenance commission of
Projector with Audio Video Conferencing System (PAVCS)**

Ref. No. LKA/RC/KOL/400/6-Acctts

Date: 17.01.2025

This is to intimate that the tender number LKA/RC/KOL/400/6-Acctts dated 23.12.2024 at **85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi,** following specifications have been modified

- 1. Tender specification point – Scope of Maintenance and Warranty**
- 2. Tender specification point – Amplifier specification modified**
- 3. Tender specification point – Speaker specification changed**
- 4. Tender specification point – 4K USB PTZ Camera need to be changed and furnished**

All other specifications and terms and conditions of the aforementioned tender remain unaltered.

Corrigendum for Technical specifications for tender number LKA/RC/KOL/400/6-Acctts dated 23.12.2024

The technical specifications for the above equipment stand modified as mentioned below.

1) ANNEXURE – 1 - Point (2/iii) now stands modified to the following:

The successful bidder has to provide any required service or Maintenance of supplied up to next three (3) years from the date of installation.

2) ANNEXURE – 2 - Point (2.03) now stands modified to the following:

The mixer and amplifier system should be Portable design, suitable for various PA applications. System should be Extendable with its preamp/line output for larger applications.

System should be Overload and low voltage protection. It should be AC & DC power supply.

Rated power: Rated Power (at THD 10% 240 VAC,1kHz,4Ω): 300 W. DC Power Supply Output Power: ≥ 50% rated power.

Tone Controls (Bass): ± 10 dB at 100 Hz Tone Controls: 2 x (≥ 16 AWG) Cables

4Ω/8Ω & 70/100V, Barrier Strip (with touch proof cover) Frequency Response: 50-15,000 Hz ± 3dB

Output Regulation: ≤ 3 dB, no load to full load at 1kHz Signal to Noise ratio: ≥ 70 dB

Tender specific MAF from OEM should be submitted by Bidder.

3) ANNEXURE – 2 - Point (2.04) now stands modified to the following:

Frequency Range (-10 dB)	70 Hz – 23 kHz
Midrange (±1.5 dB, typical)	130 Hz – 14 kHz
Nominal Coverage	100° x 100°
Nominal Sensitivity	87 dB SPL, 1W @ 1 m (3.3ft)
Nominal Impedance	8 ohms
Minimum Impedance	6.7 ohms at 230 Hz
Safety Agency Rating	Transformer listed per UL1876
Features	Video shielded for use near video monitors.
	Extremely smooth frequency response.
	Stainless steel grill for harsh environments.
	60 W transformer for 70 V or 100 V lines, with 8 ohms thru.
	100° x 100° high frequency horn.

Tender specific MAF from OEM should be submitted by Bidder

4) ANNEXURE – 3 - Point (1.02) now stands modified to the following:

Supply, Installation, Testing and Commissioning of the camera shall have 1/2.7 HD CMOS sensor or better. It shall have an option of Auto or Manual White Balance. It shall have S/N Ratio of >55db. It shall have 12x optical zoom or better. It shall have 12x digital zoom or better. It shall have USB 3.0 port for unified communication applications, HDMI/DVI Port for Hardware Equipments & IP interface for monitoring. It shall have RJ-45 network interface for Monitoring applications. It shall support TCP/IP, HTTP Port & RTSP Port shall be configurable. Support configurable site addressing while streaming with Time stamp. It shall support Dual H.264 and H.265 Streams with Option of Full HD, HD and SD resolution. It shall support Video format on USB as well as HDMI of 1080p 60/50 fps, 1080i60/50,1080p30/25,720p 60/50/30/25 fps. Shall have at least 4 Infra Red Identities. At least one preset shall get recalled whenever camera is powered on. The same shall be removed or saved multiple times. It shall support 60 fps on both USB 3.0 as well as HDMI interface or better. It shall have an RS 232C port as well as RS-422/485 Port for Communication. RJ-45 Control port with TCP/IP Controlling. It shall have at least 200 Position Presets through keyboard or third party controller and at least 9 position presets through IR remote or better. It shall have 83° or better field of view. It shall have a Pan Rotation Angle of -170degrees to +170 degrees or better. It shall have a Tilt Rotation Angle of -30 degrees to + 90 degrees or better. It shall be supplied with IR remote control, Control Cable, mounting bracket, Operation Manual, Mounting Screws and 3 Meters Camera Cable as an included accessory. It shall have CE, FCC, RoHS, ISO9001, ISO27001, ISO50001 & ISO14001 Certifications.

Tender specific MAF from OEM should be submitted by Bidder



LALIT KALA AKADEMI
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Website: www.lalitkala.gov.in

LKA/RC/KOL/400/6-Acctts.

Date: 23/12/2024

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance commission of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

The Lalit Kala Akademi is an autonomous organisation under Ministry of Culture; Govt. of India, is a premier organisation to promote Visual Arts in India. Akademi invites Limited Tender Invitation (LTI) for Selection of Firms / Agency for installation / maintenance of Outdoor LED Display Board (OLDB) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A.J.C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

The bid documents containing the specifications (**Annexure – 1**) Scope of work & Terms and conditions, (**Annexure– 2**) Technical Specifications (**Annexure –3**) Documents Checklist (**Annexure – 4**) Tender Acceptance Letter, (**Annexure – 5**) & Financial Bid Tender Documents can be downloaded from Lalit Kala Akademi, New Delhi, Website, <https://www.lalitkala.gov.in> as per schedule given below:

SCHEDULE OF WORK

- | | |
|----------------------------------|--|
| 1) Name of Work | : Supplying, installation, commissioning & maintenance of Audio Video Conferencing System (PAVCS) |
| 2) Completion period of work | : 30 (Thirty) Days |
| 3) Name of Authority to whom | :Regional Secretary, Lalit Kala Akademi, Regional Centre, the bids have to be submitted 361, Keyatala Lane, Kolkata-700 029, W.B.
Email: lkarckol84@gmail.com / lkarckol@lalitkala.gov.in
Phone: 033-48489692 |
| 4) Mode of submission | : Offline through speed post / in person in sealed envelope
Super scribing “Quotation for Projector Audio Video Conferencing System (PAVCS)”
addressing to the above mentioned authority and address. |
| 5) Last date of submission | : 24.01.2025 |
| 6) Time of Opening of quotations | : 25.01.2025 |

This Limited Tender invitation shall also form part of tender document and shall be returned duly signed along with other required documents along with submission of bids. The issuing authority reserves all rights to cancel/reject/terminate this LTI process at any stage of time, the bidder shall accept the same.


17/01/2025
Regional Secretary I/C

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance commission of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

SCOPE OF WORK

The scope of work for Engagement of firms / Agency for installation, commissioning maintenance of Projector with Audio System & Video Conferencing System (PAVCS) at LKA, Regional Centre, 85, AJC Bose Road, Kolkata –700014 of the selected agency shall be, but not limited to, the following:

1. Scope of Preparing and fixing (PAVCS)

- i- The successful bidder has to install the PAVCS in the specific location in consultation with the tendering Authority.
- ii- The Manufacturer / bidder have to develop and prepare the PAVCS according to the size or measurement in the Schedule by the tendering Authority.
- iii- The approved Shell / Configuration structure shall be prepared as per the specification provided by the Authority in the specified Annexure.

2. Scope of Maintenance and Warranty

- i- The bidder shall provide 3 (three) years warranty in original from the manufacturer / supplier. An undertaking to this effect shall be submitted along with the technical proposal.
- ii- The bidder shall also furnish a certificate for the materials supplied against the assigned work meets all the stipulated requirements and warranty. The warranty shall also cover the replacements of required spare parts. Warranties should be given in original and should have legal jurisdiction in India.
- iii- The successful bidder has to provide any required service or Maintenance of supplied up to next three (3) years.

3. Inspection of Completed work:

- i- After the successful bidder is awarded the work, he shall report the progress of work during the different stages of the work, complete all responsibilities assigned in the scope of work and subsequently report completion of work in written statement, to the tendering authority, and tendering authority will assess the quality of work and its completion.
- ii - The technical team after its visit shall submit report of the work and thereafter the works shall be deemed for making payment.
- iii- During inspection of the work, the technical team may ask for rectification of any defects/non conformity etc. as observed. In such event, the necessary rectifications shall be done as per the Schedule of Technical Specifications put up in the LTI Document.
- iv- Defects so identified have to be rectified as per Technical Specifications within a period of 10 days maximum.

5. Fabrications, Installation and Erection:

- i- Once the work order is issued to the agency for the assigned work, it shall be carried out accordingly as per the schedule of Completion of the work.
- ii- Arrangement of lorry, welding equipment, iron plates, (cement, sand, stone chips-optional items), electrical connection accessories, cables, switches etc. cutouts plugs flex materials etc. all such items required for the work shall be arranged in the manner as to finish the work in due time.

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance commission of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

6 Maintenance, Warranty & Up gradation of electronic items:

- i- Maintenance of installed display shall mean any work required to keep the PAVCS, installed properly visible and describe for all viewers for the entire period of contract.

7. Extraneous Conditions:

- i- Inclusion of any extraneous terms & conditions that contradicts /modifies the Tender terms & conditions will lead for summery rejection of the Tender. Incomplete Tender will summarily be rejected. The contractor shall not sublet of assign/transfer the said contract to any other person or persons. During submission of bids, no external clauses and conditions shall be submitted by the bidder in any form whatsoever, and he should stick to the conditions of the Bid Document only.

**Signature of Authorized representative
With Name, Seal & Date**

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TERMS & CONDITIONS

01- Eligibility, Competency & the Details to be furnished.

- i. Firm/Agency should have (5) five years' experience in the Field of installation / maintenance of Projector of Audio Video Conferencing System (PAVCS) in different localities similar to work given in the **Annexure-1 & 2** to be furnished.
- ii. The bidder should submit tender specific map for all the quoted products against the said tender
- iii. Firm / Agency should have skilled staff having knowledge of the similar work.
- iv. Firm / Agency should have knowledge of the mandate & work in a Government Department & communication cell. Bidder shall submit *Work Completion Certificate/PO* issued in favor of his/her Firm.
- v. (iv)-Firm / Agency should enclose brief organizational profile Including background, availability of resource & experience of the firm.
- vi. Firm / Agency's average annual turnover should not be below Rs.1 Crore for the last three years. Certified copies of balance sheet for the last three years (2021-22, 2022-23, and 2023-24) to be attached.
- vii. **The firm/agency should have experience with the installation and commissioning of the maintenance of PAVCS in different locations, management planning, and in-house maintenance capabilities based only in Kolkata, West Bengal.** Details & proof of service facilities, maintenance and availability of manpower are to be attached.
- viii. Firm / Agency should be registered under the GST Rules and must be registered in West Bengal. Bidders should submit a copy of registration certificate.
- ix. Firm / Agency should be Income Tax assessee for last 03 years. Copies of IT returns for last 03 years & PAN/TAN Card should be enclosed.
- x. Firm / Agency/Products should be BIS registered; Copy of same should be enclosed with the bid documents.
- xi. Firm / Agency should have ISO Certification; Copy of same should be enclosed with the bid documents.
- xii. Firm / Agency should not be black listed by any Public Sector / Govt. Agency. A Certificate in this regard must be enclosed by the bidders.
- xiii. All documents / proofs should be attached & submit along with bid documents as per **Annexure-3** sequence.

02- Payment Terms

- i- No advance payment shall be made by the tendering authority.
- ii- Payment shall be made by the tendering authority within 15-30 days after analyzing the work completion reports as submitted by the firm/agency.
- iii- TDS shall be deducted from the bill/of the firm/agency under the statutory rules of Govt. of India in respect of Income Tax & other Taxes etc.

Signature of Authorized representative

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03- Applicable law

The contract shall be interpreted in accordance with the laws of Central/ State Government. For judicial adjudication, the disputes, if any, arising out of the Contract shall be subject to the jurisdiction of the Courts in West Bengal only and will be settled accordingly.

04- Financial Bids

- i. All the bids which qualify in the technical evaluation stage will only be considered for opening of their financial bids.
- ii. Final lowest price may be considered for the evaluation.
- iii. The rates quoted should be inclusive of GST. The rate at which the GST has been included should be clearly mentioned in the bid. In case nothing is mentioned, it will be assumed that taxes/other levies are included in the rates quoted.
- iv. All rates should be inclusive of everything including transportation/packaging charges.

**Signature of Authorized representative
With Name, Seal & Date**

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

**Design, Supply, Installation, Testing, Commissioning Of
An integration of Multipurpose Room**

SR	Particulars	Qty.
1	Video	
1.01	Supply, Installation, Testing and Commissioning of projector with ceiling mount kit	1
1.02	Supply, Installation, Testing and Commissioning of Motorised Projector Screen	1
2	Audio	
2.01	Supply, Installation, Testing and Commissioning of wireless Lavalier microphone	1
2.02	Supply, Installation, Testing and Commissioning of wireless Handheld microphone (dual)	1
2.03	Supply, Installation, Testing and Commissioning of Amplifier	1
2.04	Supply, Installation, Testing and Commissioning of Speakers	4
2.05	Supply, Installation, Testing and Commissioning of Analog audio mixer	1
3	Installation Materials	
3.01	Supply, Installation, Testing and Commissioning of necessary cable, connectors etc. 1 lot	1

**Design, Supply, Installation, Testing, Commissioning Of
An integration of Conference room Solution**

Lines of Equipment's		
SR	Conference Solution	Qty.
1	Display and Camera	
1.01	Supply, Installation, Testing and Commissioning of 75inch interactive display	1
1.02	Supply, Installation, Testing and Commissioning of 4K USB PTZ Camera	1
2	Audio Systems	
2.01	Supply, Installation, Testing and Commissioning of Wireless Omni-Directional Speakerphone with inbuilt 4 Microphones adopt advanced High-Definition voice processing technology with Eco cancelation	1
2.02	Supply, Installation, Testing and Commissioning of Wired Extension microphones for Speakerphones with Mic	
3	Installation Materials	
3.01	Supply, Installation, Testing and Commissioning of necessary cable, connectors etc. 1 lot	1

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An Integration of Multipurpose Room

TECHNICAL SPECIFICATIONS

SR. 1	Items	Parameter	Compliance Yes/No
Supply, Installation, Testing and Commissioning of projector with ceiling mount kit should have mentioned parameters:			
a	Native Resolution	1280 x 800 (WXGA)	
b	Contrast Ratio	300,000:1	
c	Throw Ratio	0.521	
d	Noise Level (Eco)	27dB	
e	Projection Distance	0.4m~3.2m	
f	Uniformity	75%	
g	Connections	HDMI x2, Audio Out, USB-A (5V/1.5A), RS-232, RJ-45	
h	3D Support	Full 3D	
i	Speakers (watts)	15W x1	
j	Temperatures	Non-operation: -20°C ~ 60°C Operating: 0 ~ 40°C +/- 2°C	
k	Weight (kg)	4.2 kg	
l	Brightness	3800lm	
m	Projection Lens	F/2.8, f=7.51mm	
n	Keystone Correction	Vertical & Horizontal ± 30 degree, manual	
o	Aspect Ratio	4:3, 16:9, 16:10, LBX, Native, Auto	
p	Display Colors	1073.4 Million	
q	Video Compatibility	480i/p, 576i/p, 720p/1080i (50/60Hz), 1080p (50/60Hz), NTSC, PAL, SECAM	
r	Computer Compatibility	WUXGA,1080P, UXGA, SXGA+,SXGA , WXGA+,WXGA,720P,X GA,SVGA,VGA	
s	Light Type	Laser Phosphor	
t	Power Supply	DC input 19V via a 180W power adapter (AC input 100-240V,50/60 Hz to DC 19V)	
u	Power Consumption	Bright mode: Typical 140W ± 15% @ 110VAC Typical 139W ± 15% @ 220VAC Eco mode: Typical 89W ± 15% @ 110VAC Typical 88W ± 15% @ 220VAC	
1.01	Tender specific MAF from OEM should be submitted by Bidder.		
1.02	Supply, Installation, Testing and Commissioning of 100 inch Motorised Projector Screen with a unique auto tension system. Tender specific MAF from OEM should be submitted by Bidder.		

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SR. 2	Particulars	Compliance Yes/No
Supply Installation Testing and Commissioning of Omnidirectional lavalieri microphone:		
2.01	<p>Sensitivity 20 mV/Pa; Max. SPL 130 dB; with 2 x AA 1.5v battery compatible body pack transmitter; 10 mW Transmission power; Frequency response 50 – 16,000 Hz; approx. 10 hours operating time; 3.5 mm jack socket audio input; Adjustment range of transmitter sensitivity 0 to -30 dB, adjustable in 10 dB steps; rugged ABS housing; Rugged metal housing True diversity double super heterodyne stationary Receiver; Sensitivity (at peak deviation) < 3 μV at 52 dB(A)eff S/N; AF frequency response 50 – 16,000 Hz (-3 dB); Max. AF output voltage (at peak deviation, 1kHz AF); 6.3 mm jack socket (unbalanced): +6 dBu; XLR socket (balanced): +12 dBu; Audio adjustment range 40 dB, continuously adjustable with control knob; DC 12 V nom. / 300 mA Power supply; Squelch Adjustable from 3 dBμV up to 28 dBμV (combined with pilot tone); Line/Mic level 20 dB, switchable.</p> <p>Tender specific MAF from OEM should be submitted by Bidder.</p>	
Supply Installation, Testing and Commissioning of 2-channel wireless dynamic cardioid hand held microphone:		
2.02	<p>Frequency Response 80 – 16,000 Hz; 24MHz switchable UHF bandwidth with wideband frequency modulation; Double super heterodyne Dual Channel Receiver with; Antenna switching diversity via internal antennas; Sensitivity (at peak deviation) < 3 μV at 52 dB(A)eff S/N; AF frequency response 50 – 16,000 Hz (-3 dB); Max. AF output voltage (at peak deviation, 1kHz AF); 6.3 mm jack socket (unbalanced): +6 dBu; XLR socket (balanced): +12 dBu</p> <p>Audio adjustment range 45 dB, adjustable in 5 dB steps; Power supply DC 12 V nom. / 500 mA; Squelch Adjustable from 3 dBμV up to 28 dBμV (combined with pilot tone); Line/Mic level 20 dB, switchable; Rugged ABS housing. Tender specific MAF from OEM should be submitted by Bidder.</p>	
Supply Installation Testing and Commissioning of Mixer Amplifier should have mentioned criteria:		
2.03	<p>Rated Power (at THD 10% 240 VAC, 1kHz, 4Ω): 500 W. DC Power Supply Output Power: ≥ 50% rated power. Tone Controls (Bass): ± 10 dB at 100 Hz. Tone Controls: 2 x (≥ 16 AWG) Cables. Tender specific MAF from OEM should be submitted by Bidder.</p>	
Supply, Installation, Testing and Commissioning of Ultra-Compact Indoor/Outdoor Background/Foreground Speaker.		
2.04	<p>Two Way 3" Speaker, 1/2" diaphragm tweeter with fluid cooling; Coverage Angle: (100° to 120°) x (100° to 120°); Frequency Range: 70 Hz to 20 kHz.; Nominal Impedance: 8 ohms.; Power Rating: 200W Peak.; Maximum SPL: 109 peak.; Should have /70100V Transformer Taps.; Enclosure Material: High Impact Polystyrene.</p> <p>Tender specific MAF from OEM should be submitted by Bidder</p>	

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2.05	Supply, Installation, Testing and Commissioning of 8-channel Analog audio Mixer should have mentioned parameters:		
a	Channel	8 (6 Mono 2 Stereo)	
b	Mic/Line Inputs	6x Line Mono: ¼" TRS Phone 2x Line Stereo: L/R ¼" TRS Phone 6x Microphone: 3-pin XLR.	
c	Stereo Line Inputs	2x Stereo: L/R ¼" TRS Phone	
d	AUX Sends	2x Aux Sends	
e	Inserts	¼" TRS Phone – Mono Inputs, Main Stereo Output	
f	BUS(Group) Outputs	Stereo Output Only	
g	2 Trk Master I/O	Mix L/R: Stereo Paired L/R RCA Phono	
h	Monitor Outputs	Monitor: L/R Stereo Paired ¼" TRS Phone	
i	Solo/Mute	All Input Channels	
j	Preamp	6 preamp with ultra-low noise performance	
k	EQ	Mono Inputs +/- 15 dB Lo: 80 Hz Mid: 150 Hz – 3.5 kHz (swept) Hi: 12 kHz Q: 1.5 Stereo Inputs +/-15 dB Lo: 80 Hz Mid: 720 Hz Hi: 12 kHz	
l	Trim/Gain Control	Rotary Potentiometers	
m	Phantom Power	+48 V Phantom	
n	Metering	10-Segment L/R Peak LEDs, +48 V Phantom Power LED PFL Active LED, Power Indicator LED	
o	Frequency Response	20 Hz to 20 kHz +/-1.5 dB	
p	Signal-to-Noise Ratio	Noise (22 Hz – 22 kHz measurement bandwidth) Mic EIN @ max gain, 150 ohms source impedance - 127 dBu Mix @ max, faders to down	
q	Total Harmonic Distortion (THD)	Mic sensitivity 30 dB, +14 dBu @ mix output:	
r	Tender specific MAF from OEM should be submitted by Bidder.		
2.06	Supply, Installation, Testing and Commissioning of necessary AV Cable and Connectors should be professional standard, quantity as per the workflow. For data communication Professional CAT5/6 cable should be use the cable should be 23 AWG solid Bare copper conductor, FR PVC jacket and HDPE insulated, cable Capacitance Unbalance: 330pF/100m. All supplied system should be integrated with proper networking and professional network structure cabling work.		

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An Integration of Conferencing Room

TECHNICAL SPECIFICATIONS

SR. 1	Particulars	Parameter	Compliance Yes/No
Supply, Installation, Testing and Commissioning of 75inch Interactive Display should have mentioned parameters:			
i.	Active Screen Size (inch):	75"	
ii.	Panel Type	IPS (DLED)	
iii.	Display Ratio	16 : 9	
iv.	Resolution	3840 x 2160 or better	
v.	Display Colours	10 bit or better	
vi.	Brightness	440 nit (w/o Glass, max)	
vii.	Contrast Ratio (Typical)	"1200:1	
viii.	Touch Response Time	5ms	
ix.	Response Time (Typical)	8ms (G to G) Panel Response Time	
x.	Viewing Angle	178° x 178°	
xi.	Display Orientation	Landscape	
xii.	Speakers	Inbuilt	
xiii.	Max. Power Output	2x15 Watts	
xiv.	Speaker Position	Seamlessly mounted in lower side of the display. Front facing, Forward through.	
xv.	S Touch Technology Deployment	Inbuilt Touch and No overlay is allowed	
xvi.	Touch Sensor	Advanced IR	
xvii.	Surface material of touch surface	Anti-Glare & Anti-Finger Print Glass	
xviii.	Protection	3M Antiglare	
xix.	Touch Screen Writing Tools	2 x Touch Pen included and Finger Both	
xx.	Positioning Accuracy	±1mm	
xxi.	Transparency	88% or better	
xxii.	Surface Hardness	9H or better	
xxiii.	Glass thickness	4 mm	
xxiv.	HID Support	Yes	
xxv.	Touch Points in Windows	40 Touch Points	
xxvi.	Touch Points in Embedded OS	32 Touch Points	
xxvii.	Writing Tool	2 x Touch Pen included and Finger Both	
xxviii.	Communication Interface	Inbuilt USB-A type	
xxix.	Ports	3x HDMI IN, 1xHDMI Out, 1x VGA, 2xTouch USB Out, RJ45 LAN In, RJ45 LAN Out, RS232C In/Out, 4xUSB 3.0, 1xUSB 2.0, 1xUSB Type-C, Audio In, Audio Out Optical SPDIF	
xxx.	OPS Slot	OPS Slot Inbuilt	
xxxi.	Multimedia File Formats Supported	Support all major types of multi-media files	
xxxii.	GUI - Graphic User Interface	Android OS with GUI	

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xxxiii.	Software Features	Software must support all basic features like Pen selection, width selection, colour change, Background change, erase, Multiple page navigation, saving of file in PDF and JPEG. Split-Screen with Input source.	
xxxiv.	Special software Features	Whiteboard software should give option to navigate page with 2 fingers without using menu. Special eraser to erase while writing without selecting menu. EDLA Certified, play store.	
xxxv.	Customized GUI	User can easily customized their own background and logo's	
xxxvi.	Multimedia File Formats Supported	Support all major types of multi-media files	
xxxvii.	RAM	8GB	
xxviii.	ROM	64GB	
xxxix.	Power consumption	230 Watts Typical	
xl.	Android Version	Android 13 (EDLA Certified)	
xli.	Android resolution	4K	
xlii.	Device Management Software	Option should be available	
xliii.	Storage Temperature/Humidity	-15°C~55°C/20~90%RH(Non coagulation)	
xliv.	Working Temperature/Humidity	0°C-40°C/20~80%RH(Non coagulation)	
xlv.	OEM must have presence in India for more than 10 years (Certificate of Incorporation required).		
xlvi.	The OEM must have minimum Annual Turnover of Rupees 500 Crores (each year) during last three financial years in India.		
xlvii.	The OEM must have factory in India (valid factory license Copy required).		
xlviii.	OEM must have registered office in West Bengal for last 10 years (GST and Trade License Copy required).		
xlix.	OEM should have at least one direct Service Centre in West Bengal with at least 2 nos. of payroll engineers / manpower and also have franchisee service centres network all cross the West Bengal.		
1.01	OEM must have ISO 9001:2015, ISO 14001:2015 and BS OHSAS 18001:2007 / ISO45001:2018 certifications. Tender specific MAF from OEM should be submitted by Bidder		
1.02	Supply, Installation, testing & Commissioning of 3 Input HDMI / USB Video Switcher with parallel HDMI Output & USB2.0 Video Capture output. Should have minimum of 3 Input; Should have minimum 2 x USB3.0 port; Should have 1 x HDMI Input; All Inputs should support Seamless Switching with Zero Blanking Frame. All 3 Inputs (USB & HDMI combination) Should support minimum resolution of 1080p on each input. Should have minimum of 1x USB2.0 & 1x HDMI Output. HDMI output should support a resolution up to 4K60. USB2.0 Capture Output should support USB-Video format. Should have front keypad buttons for selection of Inputs. Should also be able to Switch Inputs both from Front panel & also through Control Interface. Should have Control interface such as RS-232, TCP/IP which gives flexibility to control from 3 rd party control systems. Should be compatible with Windows 7 & above, Mac OS X and Linux with no need of any Drivers & no need of major Setup. Tender specific MAF from OEM should be submitted by Bidder.		

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

SR. 2	Particulars	Parameter	Compliance Yes/No
2.01	Supply, Installation, Testing and Commissioning of Wireless Omni-Directional Speakerphone with inbuilt 4 Microphones adopt advanced High-Definition voice processing technology with Eco cancelation should have mentioned parameters:		
i.	Frequency Response (Mic)	It shall have Microphone Frequency Response from 100 Hz to 22000 Hz or more.	
ii.	Noise Reduction	It shall have bidirectional noise reduction of < 25dB or better.	
iii.	Type	It shall work as wired as well as wireless speakerphone. It shall work on 2.4 GHz Radio Frequency. It shall not be blue tooth based.	
iv.	Automatic Gain Control	It shall have Automatic Gain Control.	
v.	Acoustic Echo Cancellation	It shall have Acoustic Echo Cancellation of >65 db or better.	
vi.	Tail Length	It shall have tail length of ≥ 500ms or better.	
vii.	Output Level	It shall have output level of 95dB or better.	
viii.	Frequency Response (Speaker)	It shall have Speaker Frequency response from 100 Hz to 22000 Hz or better.	
ix.	Keys	It shall have Vol Up/Down, Mic Mute/Unmute, Power On/Off keys. Must have EC on/Off hard key option.	
x.	Mic Sensitivity	It shall have audio pickup range of 16 feet or better.	
xi.	Interface	Shall have USB, Line In/Out, two RJ-10 4P4C and 6-Pin mini Din control interface option for controller.	
xii.	Processing	It shall have High Definition voice processing technology.	
xiii.	Scalability	It shall have scalability option to add two external microphones.	
xiv.	EC Control	Must have EC on/Off hard key option.	
xv.	Indication	Shall have Indication for Mic mute/unmute, vol mute/unmute, low battery, full battery, charging, EC on/Off & both Vol & Mic mute/unmute.	
xvi.	Accessories	It shall be supplied with standard 10 ft USB 2.0 connecting cable, Wireless RF based Dongle and User Manual as standard Accessory.	
2.02	Supply, Installation, Testing and Commissioning of Omni Directional microphone which shall be Wired Boundary Layer Microphone. Shall be supplied as pair. It shall have Omni-Directional polar patter. It shall have Microphone Mute-Unmute Button with Indication. It shall get integrated with the main system with complete indication and microphone control through any of the units. It shall have interface to get integrated with the complete system. Tender specific MAF from OEM should be submitted by Bidder		
SR. 3	Supply, Installation, Testing and Commissioning of necessary AV Cable and Connectors		
3.01	It should be professional standard, quantity as per the workflow. For data communication Professional CAT5/6 cable should be use the cable should be 23 AWG solid Bare copper conductor, FR PVC jacket and HDPE insulated, cable Capacitance Unbalance: 330pF/100m. All supplied system should be integrated with proper networking and professional network structure cabling work.		

**Signature of Authorized representative
With Name, Seal & Date**

DOCUMENTS CHECKLIST

SL. NO.	DOCUMENT	YES/NO
2	Copy of Registration certificate with Registrar of Companies	
3	Copy of PAN/TAN number	
4	Copy of GST registration certificate	
5	Copy of ITR return of last 3 years	
10	Copy of ISO certification	
11	Copy of BIS registration	
12	Background/Profile of Organization (a) Brief on track record of the firm/agency indicating the strength and credentials (b) No. of Employees (c) Details of in-house facilities	
6	Copy of proof(s) of completion/ongoing client certificate & work order/contract for number of works done during last 5 years.	
7	Copies of satisfactory certificate(s) of having completed at least 3 contracts similar to the subject matter of this tender notice for Government departments/organizations.	
8	Copies of balance sheet/CA certificate of average annual turnover for last 3 years.	
9	Any other relevant document (Specify)	

Declaration: This is to certify that I/We before signing this bid document have read and fully understood all the terms and conditions contained in the document and undertake myself/ourselves to strictly abide by them.

**Signature of Authorized representative
With Name, Seal & Date**

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

TENDER ACCEPTANCE LETTER

Date:

To
Regional Secretary I/C
Lalit Kala Akademi
Regional Centre
361 – Keyatala Lane
Kolkata - 700029

Subject: Acceptance of Terms & Conditions of Tender Reference No. LKA/RC/KOL/400/6-Acctts.

Name of Tender/Work: Supplying installation maintenance of Projector with Audio Video Conferencing System (PAVCS)

Dear Sir,

1. I/We have downloaded/ obtained the tender document(s) for the above mentioned Tender/Work“ from the website namely www.lalitkala.gov.in of Lalit Kala Akademi.
2. I/We hereby certify that I/ we have read the entire terms and conditions of the tender documents (including all documents like annexure(s). schedule(s) etc. which form part of the contract agreement and I/We shall abide by the terms /conditions/clauses contained therein.
3. I/ We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/ corrigendum(s) in its totality/entirety.

Yours faithfully

**Signature of Authorized representative
With Name, Seal & Date**

Limited Tender Invitation (LTI) for Selection of Firms / Agency for supplying installation maintenance of Projector with Audio Video Conferencing System (PAVCS) in new building premises of Lalit Kala Akademi, Regional Centre at 85, A. J. C. Bose Road, Kolkata-700 014 on behalf of Secretary, Lalit Kala Akademi, New Delhi.

FINANCIAL BID

Sl. No.	Description of Item	Quoted Rates (in Rs.)	Quoted Rates (in words)
1	AV System for Multipurpose Room		
I	Supply, Installation, Testing and Commissioning of projector with ceiling mount kit		
II	Supply, Installation, Testing and Commissioning of Motorized Projector Screen		
III	Supply, Installation, Testing and Commissioning of wireless Lavalier microphone		
IV	Supply, Installation, Testing and Commissioning of wireless Handheld microphone (dual)		
V	Supply, Installation, Testing and Commissioning of Amplifier		
VI	Supply, Installation, Testing and Commissioning of Speakers		
VII	Supply, Installation, Testing and Commissioning of Analog audio mixer		
VIII	Supply, Installation, Testing and Commissioning of necessary cable, connectors etc. 1 lot		
2	Video conferencing System for Conference room		
I	Supply, Installation, Testing and Commissioning of 75 inch interactive display		
II	Supply, Installation, Testing and Commissioning of 4K USB PTZ Camera		
III	Supply, Installation, Testing and Commissioning of Wireless Omni-Directional Speakerphone with inbuilt 4 Microphones adopt advanced High-Definition voice processing technology with Eco cancelation.		
IV	Supply, Installation, Testing and Commissioning of Wired Extension microphones for Speakerphones with Mic.		
V	Supply, Installation, Testing and Commissioning of necessary cable, connectors etc. 1 lot		
	Grand Total		

Note:

- (i) Tax Deduction at Source (TDS): TDS shall be deducted from each bill/invoice (as applicable) under the statutory rules of Govt. of India in respect of Income Tax & other Taxes etc.
- (ii) Price should be quoted inclusive of applicable GST.
- (iii) Necessary statutory recovery may be made as per rules.
- (iv) All rates should be inclusive of everything including transportation/packaging charges.

**Signature of Authorized representative
With Name, Seal & Date**