

Tender Document

For

Supply Installation, Testing and Commissioning (SITC) of Audio Visual Systems in UCCI, Udaipur

**Notice Inviting Tender (NIT) No.
UCCI/Tender/AV/200 dated 16.02.2022**

**Last date & time of submission:
09.03.2022 up to 5:00 PM**



**UDAIPUR CHAMBER OF COMMERCE AND INDUSTRY
CHAMBER BHAWAN, CHAMBER MARG,
MEWAR INDUSTRIAL AREA, MADRI, UDAIPUR - 313001**

CONTENTS

S. No.	Description	Page Nos.
1.	Notice inviting Tender	1
2.	Minimum eligibility criteria	2
3.	Terms and Conditions	3 – 5
4.	Scope of work including technical specifications	6 – 10
5.	Information about the tenderer - Annexure-I	11 – 12
6.	Signed and stamped declaration - Annexure-II	13
7.	Technical specification compliance statement - Annexure- III	15 – 17
8.	Format of price bid format - Annexure-IV	18
9.	Checklist for enclosures	19



NOTICE INVITING TENDER

NIT No. UCCI/Tender/AV/200

Date : 16th February, 2022

Sub : SITC of Audio Visual Systems in UCCI, Udaipur

Udaipur Chamber of Commerce and Industry a multi district apex body of trade, industry, mining, tourism & education of Southern Rajasthan invites sealed tender offers in a two bid system from the interested and eligible reputed, experienced and financially sound Companies/Firms/Agencies for Supply, Installation, Testing and Commissioning (SITC) of the Audio Visual System in the Meeting Rooms/Halls of the Chamber on a Turnkey basis. The estimated cost of the work is Rs. 50 Lakhs.

Complete Tender Document may be downloaded from our website www.ucciudaipur.com.

Interested vendors who have experience in supplying and commissioning of similar audio visual systems in an organization of repute (at state/national level) during the last 5 (five) years as on the tender submission date and fulfilling other eligibility criteria are requested to submit the bid containing the EMD of Rs. 50,000 (Envelope-I), Technical Bid (Envelope-II) and Commercial Bid (Envelope-III) placed in a larger sealed envelope super-scribing with the tender notice number as per the tender schedule given below:

Tender Schedule

1.	Tender Notice	16.02.2022
2.	Pre-bid meeting	03.03.2022
2.	Last date and time of receipt of tender offers	09.03.2022 up to 5:00 PM
3.	Place of tender submission and opening of tender offers	Udaipur Chamber of Commerce and Industry, Chamber Bhawan, Chamber Marg, Mewar Industrial Area, Madri, Udaipur - 313001
4.	Date and time of opening of technical bid	13.03.2022 up to 5:00 PM
5.	Date and time of opening of price bid	Will be intimated to the technically qualified bidders through email.

Tender offers will be opened in the presence of authorized bidder's representatives who choose to attend the opening of tender on the above specified date, time and place. If the opening date happens to be a closed day/holiday, the tender will be opened on the next working day.

Any future clarification(s) and / or corrigendum (s) shall be communicated through email on ceo@ucciudaipur.com.

The Chamber reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document including quantity of items to be supplied or to reject any or all tenders without giving any notice or assigning any reason. The decision of the UCCI shall be final in this regard.

MINIMUM ELIGIBILITY CRITERIA

The bidders who are interest to participate should meet the following eligibility criteria:

1. The bidder is registered under the relevant laws, such as Companies Act, and/or Shops & Establishment Act or Trade License from the appropriate authority.
2. Both the bidder and the OEM are ISO 9001, 18001 & 45001 certified organizations.
3. The bidder has a minimum 5 (five) years of experience in supplying and commissioning of audio visual systems in an organization of repute (at state/national level) as on the tender submission date.
4. During the past 3 (three) years the bidder has successfully installed and commissioned similar works in Government organization, autonomous institution, universities or reputed private organizations
 - (i) 03 similar works each costing not less than 40% of the estimated cost, i.e. Rs. 20 Lakhs
 - (ii) 02 similar works each costing not less than 60% of the estimated cost, i.e. Rs. 30 Lakhs
 - (iii) 01 similar work costing not less than 80% of the estimated cost, i.e. Rs. 40 Lakhs. Completion certificate issued by Competent Authority will only be considered as credential
5. Information about the tenderer as per the Annexure – I.
6. Signed and stamped declaration as per the Annexure – II.
7. A certificate (affidavit) to be signed by the MD/CEO of the company that they have not been debarred or blacklisted for any services, supplies or products dealing in, by any organization or educational institute/university or central/state government and no criminal case/legal proceedings are pending or industrial dispute is pending or contemplated against them.
8. Submission of Earnest Money Deposit (EMD) of Rs. 50,000 (Rupees Ten thousand only) in the form of Demand Draft drawn in favor of “Udaipur Chamber of Commerce and Industry” payable at Udaipur.

The bidders must submit the documentary proof in support of meeting the minimum eligibility criteria.

GENERAL TERMS & CONDITIONS

Please specifically indicate the following points in your offer and comply the terms as mentioned hereunder.

1. The tender complying the tender specifications is to be submitted in the Company's / Firm's letterhead neatly printed/typed and duly signed by the authorized person with the seal of the bidder.
2. The tender document is to be serially page numbered and properly indexed.
3. **Technical catalogue/ leaflet** of the proposed equipment and point wise compliance statement in tabular form against the technical specification given above must be enclosed with the tender.
4. **Schematics:** The technical bid should include connectivity and signal diagrams with the IP addresses and URLs listed.
5. **Earnest Money Deposit (EMD)** : An amount of Rs. 50,000 (Rupees fifty thousand only) in the form of Demand Draft be enclosed along with the technical bid. The EMD shall be from any Scheduled Bank and to be drawn in favour of "Udaipur Chamber of Commerce and Industry", payable at Udaipur. Any bid without EMD will not be considered. This will be refunded to the unsuccessful vendors once the process of technical and commercial bid opening is complete. The EMD of vendor getting the purchase order will be retained and returned six months after successful completion of the work, to be treated as security deposit. No interest is payable on refunds. EMD shall be forfeited if the selected vendor accepts the supply, but is unable to execute the same. The EMD should be enclosed in a separate envelope and stapled with the Technical Bid document.
6. The person/officer signing the tender/bid documents should be delegated with an appropriate **Power of Attorney** (duly endorsed by a Notary Public) by the CEO/MD of the company to sign such documents.
7. **Submission of bid** : Technical Bid and Price Bid should be submitted in two separate envelopes quoting tender reference number of the top of the envelope. The EMD should be enclosed with the technical bid documents, in separate sealed envelopes, stapled with the packet containing technical bid documents. The OEMs may bid directly, for other vendors on behalf of OEM, original ink signed tender specific authorization certificate from the OEMs are to be enclosed.
8. **Price:** The all-inclusive price (FOR Site with GST) shall be quoted in Indian Rupees only.
9. **Period of validity** : The bids shall remain valid for acceptance for a period of 90 days from the date of opening of tender.
10. **Delivery\Installation** : Delivery of all goods (no piecemeal delivery will be accepted) as per the Bill of Materials is expected within Six to Eight Weeks of order. Installation to be completed within 30 Days of Delivery.
11. **Warranty\Guarantee and after sales service:** The system should carry a comprehensive onsite warranty of 3 (three) years from the date of commissioning & Handover certificate issued by the vendor.

The vendor should have service provider in Udaipur to ensure service support within the next business day. Minimum 95% annualized uptime is to be maintained throughout the warranty period. Necessary fault log in mechanism (through email/toll free number) needs to be provided along with the call escalation matrix.

12. **Validity of licenses** : All licenses required for operation of the equipment as per the tender specifications should be perpetual.

13. Payment terms:

- a) Please ensure to mention:
 - i) Bank details of the beneficiary, PAN number and GST Registration details
 - ii) Full name and address of the beneficiary on whom the order has to be placed
- b) Supply:
 - i) 50% payment shall be made against delivery of goods within 10 days on verification by CEO.
 - ii) 40% on successful installation within 30 days of installation on verification by CEO.
 - iii) Balance 10% will be released against Performance Bank Guarantee after 60 days of installation on verification by CEO.
- c) Installation Charges: Will be released after 60 days of installation on verification by CEO.

14. **Liquidated damages:** The stores should be delivered/ dispatched to destination and ready for operation not later than the delivery date specified. If the supplier fails to deliver any or all of the stores or perform the service by the specified date, liquidated damages @ 1% per week or part thereof in respect of the value of stores will be deducted from the contract price subject to a maximum of 5%. Alternatively, the order will be cancelled and the undelivered and stores purchased from elsewhere at the risk and expense of the supplier.

15. **Patent rights:** The supplier shall indemnify the purchase against all third party claims of infringement of patent, trademark or industrial design rights arising from use of the goods or any part thereof in India.

16. **Conditional offer** will not be accepted.

17. **Late tenders** i.e. tenders received after the due date and time of submission as mentioned above shall not be accepted.

18. **Customer satisfaction certificate** from at least 3 clients to whom such equipment have been supplied are to be attached with the technical bid along with the following information:

S.No	Name of the client	Nature of work	Details of PO	Value of work order	Contact details of the client	Page numbers in the technical bid
1.						
2.						
3.						

19. **Past performance** of the vendors will be judged at the time of technical bid evaluation.

20. **The tender is to be submitted/ handed over to** UCCI Office, Chamber Bhawan, Mewar Industrial Area, Udaipur- 313001 and acknowledgement may be obtained. The bids (Technical and price bids) once submitted shall be the property of the chamber and shall not be returned to the vendor in future. The signed copy of the tender document is to be submitted with the technical bid with company seal, agreeing to the terms & conditions and declaration.

21. **UCCI does not bind** itself to offer any explanation to those bidders whose technical bid has not been found acceptable by the evaluation committee of the chamber.

22. **Opening of Price Bids** : The price bid(s) of only those vendor(s) who are found to be technically qualified will be opened and the same will be opened before the technically qualified vendor(s). The date of opening of price bids will be notified separately. Those bidders who do not receive any communication for participation in Price Bid opening meeting may presume that their bid has not been accepted by the Chamber.

23. Tenderer or his/her authorized representative (with proper authorization letter for opening of technical bids and also for opening of price bids) may choose to be present at the time of opening of technical bids/price bids.
24. **Arbitration** : If dispute or difference of any kind shall arise between the UCCI and the vendor in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations. All legal disputes shall be subject to the jurisdiction of Udaipur courts only.

Important

1. The authority of UCCI, Udaipur may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The chamber at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.
2. A bid submitted with false information will not only be rejected but also the OEM/Vendor will be debarred from participation in future tendering process.
3. In case of any dispute, the decision of the President of this Chamber shall be final and binding on the bidders.
4. For any further technical query pertaining to this bid document, correspondence may be addressed to Chief Executive Officer, UCCI, Udaipur through email ID:ceo@uccidaipur.com.
5. Please note that the Chamber remains closed on Sundays and certain specified government holidays. In case the due date for opening happens to be a holiday, the same will be accepted on the next working day. The timing will however remain unchanged.
6. Submission of the tender through Fax/e-mail will not be accepted.

SPECIAL TERMS AND CONDITIONS

1. Bidder may visit the site of and understand the nature & scope of the work and doubts of any nature and should be got clarified before quoting.
2. Rate should include charges for removal of debris out of premises, removing stains, cleaning the site thoroughly and restoring it to original condition where work is undertaken.
3. Rate should include all duties, octroi, levies, payment of wages as per Act etc. and should be firm for the entire contract period. No variation of rates will be allowed. Rates have to be mentioned as per format given in financial bid. Taxes must be indicate separately.
4. The bidder shall observe all the safety precautions for the safety of the labour and the employees of UCCI during execution of works. The bidder would be responsible for the safety of persons, employed by him.
5. The bidder shall be responsible for injury to persons or things and for damages to the property of UCCI which may arise from omission or negligence of the bidder or their employees, whether such injury or damages arises from carelessness, accident or any other cause whatsoever, in any way connected with carrying out of the work.
6. Packaging, forwarding, storage and safekeeping of all the supplied materials shall be the sole responsibility of the bidder irrespective of the location of the material. UCCI shall assume no responsibility in this regard under any circumstances.
7. The bidder shall comply with all the applicable Acts, Rules, Regulations, requirement of Law (s) for entering into contract and UCCI will not in any way be liable or responsible for any default / irregularities/penalties on the bidder's part.

SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

1. Expectations in brief:

Following tables defines current position of each room and the proposed future position. This should give fair idea about the expectations from the renovation activity.

Table 1: Meeting room:

The aim is to make this room completely suitable for virtual meetings.

SN o	Current position	Proposed future position
1	Audio facilities: Audio in the room is not suitable for Zoom or other virtual meetings.	Built in noise reduction Ceiling microphones shall be installed so that remote viewers do not experience the background noise in the room and all participants in the room can be clearly heard.
2	Visual facilities: Present screen is too small to be seen from the farthest seats. Only one laptop at a time can be connected to the screen. It is not possible for multiple laptops to present while a VC call is running. There is no provision of a white board or other collaborative space in the room. A low-resolution webcam is used for VC purposes.	An integrated video conferencing and collaboration facility with an ultra-high-definition screen. The screen itself acts as a white board. The screen has in built speakers adequate to give a good hearing experience to participants. Multiple laptops can be used (one at a time) and will connect wirelessly to the screen from the participants' own seat. A high-resolution adjustable camera is included with the system. If required, have an array of hanging microphones for better sound clarity.
3	System management and call set-up is entirely manual and set up time is high	An easy-to-use iPad like interface will manage the entire system. A Zoom-room with Meeting license is part of the consideration for a seamless meeting experience.

Table 2: PP Singhal Hall:

Aim is to replace the old audio-visual equipment with new ones to make the overall AV experience from the room much better and compatible with modern HDMI laptops and display technology.

SN o	Current position	Proposed future position
1	Audio system comprises poor quality microphones, amplifiers, and speakers. For big events, we must hire the equipment and ugly large speakers are placed stage side.	Improved microphones and permanently installed speakers suitable for the full seating capacity of the room will be installed. A total of ten wireless microphones, four for the dais, one for the lectern, one collar microphone and four portable mikes can be used together. Sound mixer and suitable sized amplifier in the control room.
2	Visual system comprises a low-resolution VGA projector that is hung from the ceiling. When operated, people sitting on the dais cast shadows on the screen. It is best visible when lights in the room are dimmed. People on the dais have to turn to see the screen.	An ultra-short throw high resolution and high Lumen's multimedia projector system that can project an image on the size of the wall. Thus, no interference from the people on the dais. A monitor screen to be placed in front of the dais so that people on the dais can see the projected images. Projection will be possible from the control room as well as from the lectern. Suitable mixers for HDMI video to get included.

Table 3: Pyrotech-Tempsens Hall:

The aim is to replace the existing defective displays with improved high-resolution screens and improve the audio experience in the room.

SN o	Current position	Proposed future position
1	Visuals are provided from four low resolution VGA screens placed centrally to the room. The screens are at present not working and need replacement.	The screens will be replaced with four larger HDMI high resolution screens and their placement will be improved. It should be possible to use one wall as an additional screen using the existing projector. This could be helpful in training settings. Use one of the screens getting freed from Board room if fixtures support.
2	Audio system is through portable table and hand-held microphones that pick up external interference (e.g., from mobile phones). These are operated from a central sound mixer and connect to fixed speakers.	Set of wireless microphones can be used in any configuration of collar, table and portable. Sound mixer and suitable sized amplifier will connect to existing speakers. These microphones to be used in shared mode with PP Singhal Hall.

2. Technical Specifications

Following tables list down the proposed list of equipment for each room and the minimum features / specifications the equipment must have. However, the proposal from bidders may include a combination of better equipment or set of equipment to make the overall experience better than the expectations mentioned above.

2.1 Technical specifications for Meeting room:

SN	Item	Description of Item	Qty
1	Display	High colour Gamut UHD 4k Display touch screen with refresh rate of 60 Hz or higher, Contract ratio of 4000:1 or higher. Size minimum 65-inch, Interactive Panel with Apple airplay, USB Dongle with for wireless connectivity, Dummy Pens, White Board. Build in Processor with RAM 8GB or more, SSD of 128 GB or more. Touch response of <7.0 ms. Aspect ratio 16:9. Camera minimum 12 MP, at least 6 element array which can receive voice up to 8 meters distance without any distortion. Minimum 2.1 stereo sound having woofer along with speakers. Ports at least 1 HDMI, 2 USB 3.0, 1 USB 2.0, 2 Type C, 1 Audio Out, 1 RS 232. Wi-Fi module, at least 2 Stylus, Windows 10, Android, Apple MAC and Chrome compatible. Power input: 100-240 V, 50 Hz	1
2	Camera for meetings	IOT, BYOD Windows 10 Pre-loaded, Intel i5 or higher, RAM minimum 8GB, SSD minimum 128GB, Bluetooth, Wi-Fi, HDMI OUT 2, USB, Camera 20MP or more, 8XePTZ, Auto Framing, Speaker Tracking, Ai Face Enhancement, Speaker and Microphone array Build In Touch Panel for Meeting connect, 8-inch IPS screen, 1280 x 800 or higher resolution, 10-point capacitive touch screen, Angle adjustable bracket (28° ~ 50°), Built-in Wi-Fi AP for wireless presentation device, HDMI/USB-C video input	1
3	Audio-Video controller	Microsoft Team Rooms System for Small Room. Touch Panel for Meeting connection. 8 MEMS Microphone arrays and 133° field of view. 20 MP camera of more, Auto framing, Speaker tracking, 8x e-PTZ Camera, Device management. Easy to use walk in and start using interface.	1
4	Microphones	Ceiling Microphone - connect by RJ45 PoE Enabled, LED indicator for Mute and unmute, 8 Built-in microphones for 360-degree voice pickup, Beamforming technology for automatically locating and optimizing voice pick up for the person speaking, High-quality echo cancellation and noise proof technology for clearer voice, cover 40 square meters or more, Connect up to 8 Microphones in a system	2
5	VC software	Zoom Room with Meeting license along with room lice per year renewal basis	1
6	Cabling	HDMI 4K Supported Cables with 10 metres supported	1
7	Installation	Installation and Commissioning of the proposed equipment	1

2.2 Technical specifications for PP Singhal Hall:

SN	Item	Description of Item	Qty
1	Main display - Short throw	Digital Light Processing Multimedia Projection system. Ultra short throw <= 4 ft Distance mounting from Screen, Lumes minimum 6500 ANSI Lumens, Pixels 1920 x 1200 WUXGA Native Resolution, Contract Ratio minimum 2000:1, Inputs - DisplayPort & DVI, Controls: RS232 In/Out, RS422 In, Ethernet, USB port along with Zoom Lens etc. 360 degree and portrait mode operation. Integrated HD BaseT and 12 V charger. Laser light source of minimum 30,000 Hours. Keystone correction +/- 20 degree or higher. Aspect ratio 16:10 (native) and compatible for 16:9 and 4:3. Computer compatible for currently available resolutions including 4k, 4k UHD. Video input suitable for PAL, SECAM, NTSC, HDTV, 4k UHD, 4k	1
2	Distribution Amplifier	Distribution amplifier to connect minimum 4 Output screens. HDMI from one input HDMI, One Input to 4 Output- HDMI, Low impedance, noise reduction, Up scaling, allows up to four HDMI A/V source to be connected to one HDMI display, HDMI (3D, Deep Color). Superior video quality - HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200). Built-in bi-directional RS-232 serial remote port for	1

SN o	Item	Description of Item	Qty
		high-end system control	
3	Sound for audience	Compact 2-way loudspeaker System for Main FOH & Delay speakers, Sound with minimum 1* LFU-12X Ferrite LF Driver" or above. LF, HF - 1" exit Max SPL not less than 133db /1m (peak). Continuous RMS power of 550 - 600-watt RMS with programme power of 900– 1200 watt. RMS & peak power of 1800 - 2400-watt RMS, with sensitivity of 97 DB. Nominal Impedance: 8 ohms, nominal dispersion: 90 x 60. Plywood paint finish with wall mount bracket etc. complete as required	2
4	Sound for audience	Compact Point Source: 2 ways, LF - 1x 8", HF - 1x 0.75", 90° x 90° (H x V), with continuous RMS power of 200 - 400 watt. RMS with programme power of 900– 1200-watt RMS & peak power of 1800 - 2400 watt RMS, with sensitivity of 97 DB. Nominal Impedance: 8 ohms, nominal dispersion: 90 x 60. Plywood paint finish with wall mount bracket etc.	6
5	Sound management system	Professional total 24 channel audio mixer with 12 mic inputs; 2-line inputs 2 stereo inputs; with inbuilt flexibility with wireless and USB input effects and equalizer, graphic EQ etc.	1
6	Sound management system	2 x 6 Loudspeaker Management System With Display, Impedance 120 ohms, Sample rate 48kHz, THD 0.002%, with 11 filters per input selected as Bell or Shelving. 7 filters per output selected as Bell or Shelving as required	1
7	Cordless microphones	Cordless Handheld Microphone with UHF frequency with 10 MV RF output complete as required. 137db, 147db (with activated -10 db attenuation), 157db (with activated -20 db attenuation), 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning	5
8	Lapel microphones	Cordless Lapel Microphone with UHF frequency (8 Selectable Frequencies) with 10 MV RF output complete as required. 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning	1
9	Wireless Microphone	Wireless Digital table Microphone Set - 3 Pin XLR. Includes associated table stand, gooseneck microphone and Rack receiver with power supply and rack mount kit	4
10	Wireless Charging Desk	Charging Base - Wireless Digital table mic Set - 3 Pin XLR. Includes Table stand, gooseneck microphone, Rack Receiver with power supply and rack mount kit	4
11	Xilica - SOLARO FR1	Full rack 19" 1RU processor mainframe with sixteen user-configured card slots (16 blank cards included). Selectable 48 & 96kHz sampling rates. Integrated license-activated AEC. Dual core processing 40-bit floating DSP Front panel OLED display with jog wheel. Rear panel includes an Ethernet module with RJ45 connector and internal power supply connection.	1
12	Xilica Audio Card	2 channel Mic/Line input card with selectable mic, line, mic gain, and phantom power per input. 32-bit analog to digital converters, 2 channel Line output card. 32-bit digital to analog converters.	10
13	Cables for Audio	Speaker Lines: 2-Core, 2.5 sq mm High-definition Speaker Cable, PVC insulated in PVC jacket laid in existing conduits as required.	1
14	Cables for Audio	STP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.	1
15	Cables for video	Digital twisted pair Receiver for HDMI plus control and Analog audio up to 230 feet (70 meters) over a shielded CATx cable, supports computer and video resolutions up to 4K, including 1080p/60 Deep	1

SN o	Item	Description of Item	Qty
		Color etc. complete with installation as per site requirement.	
16	Rack	8" Moveable rack for Microphones	1
17	ITC	Installation and Commissioning of the proposed equipment	1

2.3 Technical specifications for Pyrotech-Tempsens Hall:

SN	Item	Description of Item	Qty
1	Display	UHD Display commercial Series, Diagonal length minimum 55", Brightness 350nites or more, Working 16 Hrs x7 Days, Panel Technology - Edge LED BLU or better, Contrast Ratio 4000:1 or better, Viewing Angle (H/V)-178/178, Input - RGB: DVI-D VIDEO: HDMI 2.0 (2 or more ports), HDCP 2.2, Stereo Mini Jack, DVI/ HDMI/ Audio (Common), USB 2.0 / 3.0 (2 or more ports), HARDWARE: Temperature Sensor, Pivot Display, Clock Battery (168hrs Clock Keeping), Built in Speaker(10W 2 channel), IP5x Rating, Wi-Fi/BT SOFTWARE: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot Key Option, Plug & Play (Initial Setting), Processor Cortex A72 1.7GHz Quad-Core CPU or better, L1 Instruction Cache 48KB or more, L1 Data Cache 32KB or more, L2 Cache 2MB or more	3
2	Microphones	Full rack 19" 1RU processor mainframe with sixteen user-configured card slots (16 blank cards included). Selectable 48 & 96kHz sampling rates. Integrated license-activated AEC. Dual core processing 40-bit floating DSP Front panel OLED display with jog wheel. Rear panel includes an Ethernet module with RJ45 connector and internal power supply connection.	1
3	Xilica Audio Card	2 channel Mic/Line input card with selectable mic, line, mic gain, and phantom power per input. 32-bit Analog to digital converters, 2 channel Line output card. 32-bit digital to Analog converters.	8
4	Audio-Video controller	2 x 6 Loudspeaker Management System with Display, Impedance 120 ohms, Sample rate 48kHz, THD 0.002%, with 11 filters per input selected as Bell or Shelving. 7 filters per output selected as Bell or Shelving as required	1
5	Distribution Amplifier	Distribution amplifier to connect minimum 4 Output screens. HDMI from one input HDMI One Input to 4 Output- HDMI, Low impedance, noise reduction, Up scaling, Allows up to four HDMI A/V source to be connected to one HDMI display, HDMI (3D, Deep Color). Superior video quality - HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200). Built-in bi-directional RS-232 serial remote port for high-end system control	1
6	Cables	Speaker Lines: 2-Core, 2.5 sq mm High-definition Speaker Cable, PVC insulated in PVC jacket laid in existing conduits as required.	1
7	Cables	STP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.	1
8	I&C charges	Installation and testing commissioning	1

The quantity of microphones, loudspeakers mentioned here are approximate ones. The actual quantity may vary depending on the quoted model to meet the desired project outcome for the given room dimensions. Any other interface devices/cables/connectors not mentioned in the above schedule of items, but if needed for the system integration are also to be included in the total bill of materials.

All carpentry, masonry, electrical works required for the execution of the project as per the terms of tender requirement will be the responsibility of the vendor.

INFORMATION ABOUT THE TENDERER

Format to be filled up in the official letterhead up by the bidder for submitting the tender

Sl. No.	Item		To be filled by the tenderer
1.	Name of the tenderer (Attach copy of the Registration under relevant laws)	:	
2.	Status of the tenderer (Attach documents, if registered company/ partnership/ proprietary ship)	:	
3.	Power of attorney of the official signing the tender document	:	
4.	Details of key top official/authorized official with telephone number (attach details)	:	
5.	Details of EMD – Amount, Draft Number, Date, and Issuing Bank	:	
6.	Whether the firm has been debarred or blacklisted for any services, supplies or products dealing in, by any organization or educational institute/university or central/state government and criminal case/legal proceedings are pending or industrial dispute is pending or contemplated against them.	:	
7.	Signed copy of the tender document is to be enclosed with the company seal	:	
8.	Whether the terms and conditions for the supply of stores are acceptable or not?	:	
9.	Tender document is serially numbered and indexed with page numbers	:	
10.	Credential related document provided with copies of PO, installation certificates and contact information of the clients during the last 3 years for similar type of AV equipment installation and commissioning.	:	
11.	PAN Number (Copy of PAN card to be enclosed)	:	
12.	Copy of GST registration certificate	:	
13.	Copies of Income Tax return for the last 3 years	:	
14.	Bank solvency certificate	:	
15.	System design schematic diagram with brief description of the proposed solution	:	

16.	Copy of unpriced bill of materials	:	
17.	Product literatures of all quoted products	:	
18.	Technical compliance statement of the quoted products clearly indicating the make, model number and the deviation, if any	:	
19.	Tender specific original ink signed MAFs are provided for all the quoted products	:	
20.	Documents in support of OEM and the bidder being ISO 9001 certified	:	
21.	After sales support facility in and around Udaipur and call escalation matrix	:	

It is certified that all the above information are correct to the best of my/our information, knowledge and belief.

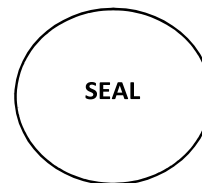
Date :

Signature of the authorized person

Place :

Name :

Designation :

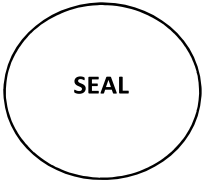


SIGNED AND STAMPED DECLARATION

- 1. I, Son/Daughter of Shri
..... Proprietor/Partner/Director/Authorized
signatory of M/S am competent
to sign this declaration and execute the tender document.
- 2. I have carefully read and understood all the terms and conditions of the tender
and hereby convey my acceptance of the same.
- 3. The information/documents furnished along with the above application are true
and authentic to the best of my knowledge and belief.
- 4. I/We am/are well aware of the fact that furnishing of any false information/
fabricated document would lead to rejection of my tender at any stage besides
liabilities towards prosecution under appropriate law.
- 5. Each page of the tender document and papers submitted by my company is
authenticated, sealed and signed, and I take full responsibility for the entire
documents submitted.

Date :
Place :

Signature of the authorized person
Full Name :
Designation :
Company Seal :



TECHNICAL SPECIFICATION COMPLIANCE STATEMENT**A. MEETING ROOM**

S N	Description of Item	Proposed Model & Make	Compliance (Yes/No)	Deviation from the tendered specs
1	Display High colour Gamut UHD 4k Display touch screen with refresh rate of 60 Hz or higher, Contrast ratio of 4000:1 or higher. Size minimum 65-inch, Interactive Panel with Apple airplay, USB Dongle with for wireless connectivity, Dummy Pens, White Board. Build in Processor with RAM 8GB or more, SSD of 128 GB or more. Touch response of <7.0 ms. Aspect ratio 16:9. Camera minimum 12 MP, at least 6 element array which can receive voice up to 8 meters distance without any distortion. Minimum 2.1 stereo sound having woofer along with speakers. Ports at least 1 HDMI, 2 USB 3.0, 1 USB 2.0, 2 Type C, 1 Audio Out, 1 RS 232. Wi-Fi module, at least 2 Stylus, Windows 10, Android, Apple MAC and Chrome compatible. Power input: 100-240 V, 50 Hz			
2	Camera for meetings IOT, BYOD Windows 10 Pre-loaded, Intel i5 or higher, RAM minimum 8GB, SSD minimum 128GB, Bluetooth, Wi-Fi, HDMI OUT 2, USB, Camera 20MP or more, 8XePTZ, Auto Framing, Speaker Tracking, Ai Face Enhancement, Speaker and Microphone array Build In Touch Panel for Meeting connect, 8-inch IPS screen, 1280 x 800 or higher resolution, 10-point capacitive touch screen, Angle adjustable bracket (28° ~ 50°), Built-in Wi-Fi AP for wireless presentation device, HDMI/USB-C video input			
3	Audio-Video controller Microsoft Team Rooms System for Small Room. Touch Panel for Meeting connection. 8 MEMS Microphone arrays and 133° field of view. 20 MP camera of more, Auto framing, Speaker tracking, 8x e-PTZ Camera, Device management. Easy to use walk in and start using interface.			
4	Microphones Ceiling Microphone - connect by RJ45 PoE Enabled, LED indicator for Mute and unmute, 8 Built-in microphones for 360-degree voice pickup, Beamforming technology for automatically locating and optimizing voice pick up for the person speaking, High-quality echo cancellation and noise proof technology for clearer voice, cover 40 square meters or more, Connect up to 8 Microphones in a system			
5	VC software Zoom Room with Meeting license along with room lice per year renewal basis			
6	Cabling HDMI 4K Supported Cables with 10 metres supported			
7	Installation Installation and Commissioning of the proposed equipment			

B. P.P. SINGHAL HALL

S N	Description of Item	Proposed Model & Make	Compliance (Yes/No)	Deviation from the tendered specs
1	<p>Main display - Short throw Digital Light Processing Multimedia Projection system. Ultra short throw <= 4 ft Distance mounting from Screen, Lumes minimum 6500 ANSI Lumens, Pixels 1920 x 1200 WUXGA Native Resolution, Contract Ration minimum 2000:1, Inputs - DisplayPort & DVI, Controls: RS232 In/Out, RS422 In, Ethernet, USB port along with Zoom Lens etc. 360 degree and portrait mode operation. Integrated HD BaseT and 12 V charger. Laser light source of minimum 30,000 Hours. Keystone correction +/- 20 degree or higher. Aspect ratio 16:10 (native) and compatible for 16:9 and 4:3. Computer compatible for currently available resolutions including 4k, 4k UHD. Video input suitable for PAL, SECAM, NTSC, HDTV, 4k UHD, 4k</p>			
2	<p>Distribution Amplifier Distribution amplifier to connect minimum 4 Output screens. HDMI from one input HDMI, One Input to 4 Output- HDMI, Low impedance, noise reduction, Up scaling, allows up to four HDMI A/V source to be connected to one HDMI display, HDMI (3D, Deep Color). Superior video quality - HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200). Built-in bi-directional RS-232 serial remote port for high-end system control</p>			
3	<p>Sound for audience Compact 2-way loudspeaker System for Main FOH & Delay speakers, Sound with minimum 1* LFU-12X Ferrite LF Driver" or above. LF, HF - 1" exit Max SPL not less than 133db /1m (peak). Continuous RMS power of 550 - 600-watt RMS with programme power of 900– 1200 watt. RMS & peak power of 1800 - 2400-watt RMS, with sensitivity of 97 DB. Nominal Impedance: 8 ohms, nominal dispersion: 90 x 60. Plywood paint finish with wall mount bracket etc. complete as required</p>			
4	<p>Sound for audience Compact Point Source: 2 ways, LF - 1x 8", HF - 1x 0.75", 90° x 90° (H x V), with continuous RMS power of 200 - 400 watt. RMS with programme power of 900– 1200-watt RMS & peak power of 1800 - 2400 watt RMS, with sensitivity of 97 DB. Nominal Impedance: 8 ohms, nominal dispersion: 90 x 60. Plywood paint finish with wall mount bracket etc.</p>			
5	<p>Sound management system Professional total 24 channel audio mixer with 12 mic inputs; 2-line inputs 2 stereo inputs; with inbuilt flexibility with wireless and USB input effects and equalizer, graphic EQ etc.</p>			
6	<p>Sound management system 2 x 6 Loudspeaker Management System With Display, Impedance 120 ohms, Sample rate 48kHz, THD 0.002%, with 11 filters per input selected as Bell or Shelving. 7 filters per output selected as Bell or Shelving as required</p>			

7	Cordless microphones Cordless Handheld Microphone with UHF frequency with 10 MV RF output complete as required. 137db, 147db (with activated -10 db attenuation), 157db (with activated -20 db attenuation), 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning			
8	Lapel microphones Cordless Lapel Microphone with UHF frequency (8 Selectable Frequencies) with 10 MV RF output complete as required. 134 dB audio input dynamic range eliminates need for sensitivity adjustments and preserves every detail, Elimination of intermodulation enables channels to be placed in an equidistant tuning grid 600 kHz apart, 56 MHz of tuning bandwidth and equidistant spacing enables up to 90 channels, 2,240 selectable frequencies allow for fine tuning			
9	Wireless Microphone Wireless Digital table Microphone Set - 3 Pin XLR. Includes associated table stand, gooseneck microphone and Rack receiver with power supply and rack mount kit			
10	Wireless Charging Desk Charging Base - Wireless Digital table mic Set - 3 Pin XLR. Includes Table stand, gooseneck microphone, Rack Receiver with power supply and rack mount kit			
11	Xilica - SOLARO FR1 Full rack 19" 1RU processor mainframe with sixteen user-configured card slots (16 blank cards included). Selectable 48 & 96kHz sampling rates. Integrated license-activated AEC. Dual core processing 40-bit floating DSP Front panel OLED display with jog wheel. Rear panel includes an Ethernet module with RJ45 connector and internal power supply connection.			
12	Xilica Audio Card 2 channel Mic/Line input card with selectable mic, line, mic gain, and phantom power per input. 32-bit analog to digital converters, 2 channel Line output card. 32-bit digital to analog converters.			
13	Cables for Audio Speaker Lines: 2-Core, 2.5 sq mm High-definition Speaker Cable, PVC insulated in PVC jacket laid in existing conduits as required.			
14	Cables for Audio STP 4 pair CAT 6 LAN Cable in the existing surface/recessed steel/ PVC conduit as required.			
15	Cables for video Digital twisted pair Receiver for HDMI plus control and Analog audio up to 230 feet (70 meters) over a shielded CATx cable, supports computer and video resolutions up to 4K, including 1080p/60 Deep Color etc. complete with installation as per site requirement.			
16	Rack 8" Moveable rack for Microphones			
17	ITC Installation and Commissioning of the proposed equipment			

S N	Description of Item	Proposed Model & Make	Compliance (Yes/No)	Deviation from the tendered specs
1	<p>Display UHD Display commercial Series, Diagonal length minimum 55", Brightness 350nites or more, Working 16 Hrs x7 Days, Panel Technology - Edge LED BLU or better, Contrast Ratio 4000:1 or better, Viewing Angle (H/V)-178/178, Input - RGB: DVI-D VIDEO: HDMI 2.0 (2 or more ports), HDCP 2.2, Stereo Mini Jack, DVI/ HDMI/ Audio (Common), USB 2.0 / 3.0 (2 or more ports), HARDWARE: Temperature Sensor, Pivot Display, Clock Battery (168hrs Clock Keeping), Built in Speaker(10W 2 channel), IP5x Rating, Wi-Fi/BT SOFTWARE: Auto Source Switching & Recovery, LFD Home UI, Button Lock, Hot Key Option, Plug & Play (Initial Setting), Processor Cortex A72 1.7GHz Quad-Core CPU or better, L1 Instruction Cache 48KB or more, L1 Data Cache 32KB or more, L2 Cache 2MB or more</p>			
2	<p>Microphones Full rack 19" 1RU processor mainframe with sixteen user-configured card slots (16 blank cards included). Selectable 48 & 96kHz sampling rates. Integrated license-activated AEC. Dual core processing 40-bit floating DSP Front panel OLED display with jog wheel. Rear panel includes an Ethernet module with RJ45 connector and internal power supply connection.</p>			
3	<p>Xilica Audio Card 2 channel Mic/Line input card with selectable mic, line, mic gain, and phantom power per input. 32-bit Analog to digital converters, 2 channel Line output card. 32-bit digital to Analog converters.</p>			
4	<p>Audio-Video controller 2 x 6 Loudspeaker Management System with Display, Impedance 120 ohms, Sample rate 48kHz, THD 0.002%, with 11 filters per input selected as Bell or Shelving. 7 filters per output selected as Bell or Shelving as required</p>			
5	<p>Distribution Amplifier Distribution amplifier to connect minimum 4 Output screens. HDMI from one input HDMI One Input to 4 Output- HDMI, Low impedance, noise reduction, Up scaling, Allows up to four HDMI A/V source to be connected to one HDMI display, HDMI (3D, Deep Color). Superior video quality - HDTV resolutions of 480p, 720p, 1080i, 1080p (1920x1080); VGA, SVGA, SXGA, UXGA (1600x1200) and WUXGA (1920x1200). Built-in bi-directional RS-232 serial remote port for high-end system control</p>			
6	<p>Cables Speaker Lines: 2-Core, 2.5 sq mm High-definition Speaker Cable, PVC insulated in PVC jacket laid in existing conduits as required.</p>			
7	<p>Cables STP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.</p>			

Annexure - V

FORMAT FOR PRICE BID

Sl. No.	Description	Qty (Nos.)	Unit Price	GST %	GST	Total
1.						
2.						
3.						
4.						
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Important : Price comparison will be based on the total system cost and the order will be placed for Supply, Installation, Testing and Commissioning of the proposed system on turnkey basis to a single vendor.

CHECKLIST FOR ENCLOSURES

(Bidder should fill up YES/NO and Page No. without fail)

Sl. No.	Bid Enclosures	Provided Yes/No	Page No(s).
Envelope-I contains the following			
1.	EMD of Rs. 50,000 in favour of UCCI, Udaipur		
Envelope-II (Technical Bid) contains the following documents			
1.	Registration Certificate		
2.	PAN and GST Certificates		
3.	Status of the tenderer (attach documents, if registered company/ partnership/proprietorship)		
4.	Details of key top officials/authorized official with e-mail ID and contact number		
5.	Proof of the bidder having 05 (five) years' experience in supplying and commissioning of AV systems		
6.	Credential documents – copies of PO and satisfactory completion certificate(s) along with other details as per the attached format		
7.	Certificate (affidavit) that the company is not blacklisted		
8.	Income Tax returns for the last 3 (three) financial years		
9.	Signed copy of the tender document		
10.	Information about the tenderer as per Annexure-I		
11.	Signed and stamped declaration as per Annexure-II		
12.	Solvency certificate as per Annexure-III		
13.	Bidder is ISO 9001 certified organization		
14.	OEM is ISO 9001 certified organization		
15.	Technical specifications compliance statement as per Annexure-IV		
16.	Tender specific original ink signed MAF provided from OEMs of all quoted products		
17.	System design schematic with brief description of solution		
18.	Copy of unpriced bill of materials		
19.	After sales support facility in and around Udaipur and call escalation matrix		
Envelope-III (Commercial Bid)			