

**Indian Institute of Information Technology,
Design and Manufacturing, Kurnool
Jagannathagattu, Dinnidevarapadu, Kurnool.**

(An Institute of National Importance Funded By Ministry of Human Resource Development, Government of India).



Tender Document for

Supply and Installation of Audio and Video Conferencing System

At

Indian Institute of Information Technology, Design and Manufacturing, Kurnool
Jagannathagattu, Dinnidevarapadu, -518007, Andhra Pradesh

Telephone: 08518-289115 Websites: <http://iiitk.ac.in/home>

INVITATION FOR BID (IFB)

| | | |
|--------------------------|----------|--|
| Tender Enquiry No | : | IIITDMK/2020-21/S&P/Audio & Video Conferencing System/3 Dated.18 Aug 2020 |
|--------------------------|----------|--|

Sealed tenders are invited, under two bid system i.e. Technical bid and Financial bid, for **Supply and Installation of Audio & Video Conferencing System at Indian Institute of Information Technology, Design and Manufacturing, Kurnool**, from reputed & registered agencies/companies/firms. Tender documents can be downloaded from the CPP Portal <https://eprocure.gov.in/epublish/app> or Institute website <http://iiitk.ac.in/home>. Bidders shall ensure that their bids, complete in all respects should be submitted before the closing date and time as indicated in the critical date sheet given below.

There is no tender fees.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions. Non-compliance with specifications/instructions may disqualify the bidders for the tender process. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

| Scope of Work | Amount of EMD in Rs. |
|--|--|
| Supply and Installation of Audio & Video Conferencing System at IIITDM, Kurnool | Rupees One Lakh Only Rs. (1,00,000/-) |

CRITICAL DATE SHEET

| | |
|---|-----------------------|
| Date of Publication of the Tender Document | 18.08.2020 |
| Starting Date of Downloading of Tender Document | 20.08.2020 |
| Pre Bid Meeting and site Visit | 27.08.2020 (11:00 AM) |
| Starting Date of Bid Submission | 28.08.2020 |
| Ending Date of Bid Submission | 09.09.2020 |
| Opening Date of Technical Bid | 10.09.2020 |

In wake of Covid-19, Only one person per company is allowed for Site Visit/ Pre Bid-meeting

Sd/-

Registrar I/c

Important :

All communications are to be addressed to the Registrar I/c, IIITDM, Kurnool, only and not in the name of any other officer and mails are to be sent to official purchase email id purchase@iiitk.ac.in

Terms and Conditions

The Bidders are requested to submit bids in two bid system.

Two bid system: The two bids, Technical bid and financial bid, should be submitted with all required documents in separate sealed envelopes.

**Envelope-I : This Envelope shall contain the duly signed and stamped tender documents
This envelope shall be sealed and super scribed as “Technical Bid”**

Envelope-II : This Envelope shall contain the financial bid (Annexure-III).

This envelope shall be sealed and superscribed as “Financial Bid”

The above two sealed envelopes along with covering letter, and EMD should be put in a bigger envelope and sealed. This envelope shall be superscribed as “Supply and Installation of Audio and Video Conferencing System at IIITDM, Kurnool”, and submitted to The Registrar, Indian Institute of Information Technology, Design and Manufacturing, Kurnool, Jagannathagattu, Dinnidevarapadu, Kurnool-518007, **on or before 09.09.2020(05.00 PM).No Request for extension of due date will be entertained.**

The bidder has to accept all the terms and conditions of the Institute and conditional offers will not be accepted.

Tenders which are submitted without following the two bid offer system will summarily be rejected.

Earnest Money Deposit (EMD):

EMD for Rs.1,00,000/- (Rupees One Lakh only) in the form of Demand Draft/ Bankers Cheque /Bank guarantee, drawn, in favor of “**The Director, IIITDM Kurnool**” payable at Kurnool. (The EMD without interest shall be returned to the unsuccessful bidders after finalization of the tender).

The firms registered and having valid NSIC / MSME Certificate are exempt from submission of EMD.

Envelope No-1 : Technical Bid

The technical specifications for the equipment to be supplied are given in the Annexure I.

The bidder/OEM should have supplied and Installed Audio and Video Conferencing , to Centrally Funded Technical Institutions / National Laboratories (IITs, NITs, IISCs, IISERs, IIITs etc.) in the last five years (01 April 2015 -31 April 2020 or after) and should provide Purchase Orders of those as documentary evidence. Further, the bidder must provide a certificate of satisfactory performance from the organization to which they have recently supplied. Contact details of the faculty/person-in-charge of the installed setup must also be provided.

The bidder / OEM must preferably have a service center and a registered office at a nearby place, preferably, Kurnool. Certificates of registration for the centers and registered offices are to be provided. Details about scope of service activities provided by the service centers must be provided

Bids should have a validity of **90 days**.

The technical offer **should not contain any price information**.

The Following Documents are to be attached:-

1. Certificate of Incorporation/ Registration Certificate of the firm / Company/Agency
2. Income Tax returns filed for the last three financial years 2017-18, 2018- 19, 2019-20.
3. PAN No.
4. GST Registration certificate
5. Bidder/Agent who quotes for items manufactured by the other manufacturer shall furnish scanned copy of Manufacturer's Authorization Form as per Annexure-II
6. The tenders not meeting the eligibility criteria will be summarily rejected. Hence, the tenderers are advised to attach relevant documents in support of their eligibility.
7. The OEM certificate or the valid authorization letter from the OEM for sale & support of the product quoted.

Envelope No-2: Financial Bid

This should contain only the price information along with commercial terms and conditions.

Financial offer should be submitted as per the format (Annexure-III)

The bidder shall state the basic price inclusive of all levies, transportation, delivery, GST, installation & all other charges. The basic unit price needs to be indicated individually against the items, the bidder proposed to supply. It is the responsibility of Bidder to go through the Bidding Document to ensure furnishing of all required documents in addition to above, if any. No condition shall be attached to the Financial Bid. Such a bid shall be summarily rejected. **The price quoted shall be for supply, delivery and installation at specified room of IIITDM Kurnool, Kurnool District, and Andhra Pradesh.**

Opening of Technical Bids

The technical bids will be opened on the scheduled date in the presence of the bidders or their authorized representatives who choose to attend the technical bid opening. In case the specified date of bid opening falls on or is subsequently declared a holiday or closed day for the purchaser, the Bids will be opened at the appointed time and place on the next working day.

Authorized representatives of the Bidders, who have submitted Bids on time may attend the Bid opening provided they bring with them letters of authority from the corresponding Bidders acknowledgement letter of bid submission.

Scrutiny of Bids

The Institute will examine the bids to determine whether they are complete, whether the documents have been properly signed, stamped and whether the Technical Bids are generally in order.

Prior to the evaluation of Financial Bids, the Institute will determine the substantial responsiveness of each Bid to the Bidding Document. For purposes of these clauses, a substantially responsive Bid is one, which conforms to all the terms and conditions of the bid document. If a Bid is not substantially responsive, it will be summarily rejected.

Technical Evaluation

- i) All the technical aspects of the bids received will be evaluated for suitability and specification. If required, the Institute may seek additional clarification from the bidders.
- ii) The technical recommendation shall be final and binding on all the parties.

Opening of Financial Bids

- i) The financial bids of only those bidders, who are technically qualified in the technical evaluation, will be opened in the presence of the technically qualified bidders or their authorized representative, who choose to attend the financial bid opening.
- ii) The technically qualified bidders will be intimated about the date of opening of financial bid, by email or telephone.

Delivery Period / Timelines

The deliveries and installation must be completed **within 04 weeks** from the date of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet this condition.

Locations for the supply / services

The bidders may note that the items covered by this document are required to be supplied and installed at

**IIITDM Kurnool,
Jagannathagattu,
Dinnidevarapadu village,
Kurnool
Kurnool District
Andhra Pradesh-518007.**

Installation

- i) Bidder shall be responsible for installation as applicable and for after sales service during the warranty and thereafter.
- ii) Installation to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the item at site.

Warranty / Support

- i) The items supplied shall carry a minimum of Three year warranty from the date of acceptance of item.
- ii) The defects, if any, during the guarantee / warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, GST and other taxes, if any and should be borne by the vendor.
- iii) The contractor should arrange for technical support during warranty period within 24 Hours of lodging of complaint

Indemnity

The vendor shall indemnify, protect and save IIITDM Kurnool against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc., or such other statutory infringements in respect of all the items supplied by them.

Freight and Insurance

The items to be supplied will be insured by the vendor at his own cost against all risks of loss or damage from the date of shipment till such time it is delivered at IIITDM Kurnool, Kurnool District, and Andhra Pradesh.

Bid Validity

The Bid shall remain valid for acceptance for a period of 90 days after the date of Bid opening prescribed in the Bidding Document. Any Bid valid for a shorter period shall be treated as unresponsive and rejected. Bid Security of a Bidder will be forfeited, if the Bidder withdraws or amends its Bid or impairs or derogates from the Bid in any respect within the period of validity of its Bid without prejudice to other rights of the IIITDM Kurnool. The successful Bidder's Bid Security will be forfeited without prejudice to other rights of IIITDM Kurnool if it fails to furnish the required performance security within the specified period.

In exceptional cases, the Bidders may be requested by the Institute to extend the validity of their Bids up to a specified period. The Bidders, who agree to extend the Bid validity, are to extend the same without any change or modification of their original Bid and they are also to extend the validity period of the Bid Security accordingly.

In case the day up to which the Bids are to remain valid falls on or subsequently declared a holiday or closed day for IIITDM Kurnool, the Bid validity shall automatically be extended up to the next working day.

Payment

100% payment after delivery, installation and acceptance by IIITDM, on submission of Bank Guarantee for an equivalent value of 10% of PO value valid till warranty period plus 2 months.

The bidders may note that **other modes of payment like advance payment and payment against delivery is not considered.**

Penalty for delayed services / LD

- i) As time is the essence of the contract, delivery period mentioned in the purchase order should be strictly adhered to. Otherwise the LD clause will be applied / enforced.
- ii) If the supplier fails to supply, and fix the item as per specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of order value for delay of every week or or part thereof subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
- iii) IIITD&M Kurnool reserves the right to cancel the order in case the delay is more than 04 weeks and the contractor is not eligible for any damage from the Institute and contractor will forfeit his claim for EMD.

Purchaser's right to vary quantities at the time of award

IIITDM Kurnool reserves the right at the time of award of contract to increase or decrease the quantity of items specified in the schedule of requirements without any change in price or other terms and conditions.

Jurisdiction

The disputes, legal matters, court matters, if any, shall be subject to Courts in the district of Kurnool Jurisdiction only.

Force Majeure

- a) IIITDM Kurnool may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the contract, is the result of a force majeure.
- b) If the due date of submission of tender / tender opening is declared a holiday for the Institute, the due date for submission of tender / tender will be extended to same time on next working day.

Arbitration

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc., shall be referred by either party (IIITDM Kurnool or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute and will be referred to the arbitrator to be nominated by The Registrar, IIITDM Kurnool. The Venue for arbitration shall be Vijayawada, India.

Acceptance of the terms and conditions of tender document

The bidders has to accept all the terms and conditions of this tender document and it is made known that the bidders quoting for this tender had impliedly accepted the terms and conditions of this tender.

Interpretation of the clauses in the Tender Document

In case of any ambiguity / dispute in the interpretation of any of the clause in this tender document, interpretation of The Registrar I/c, IIITDM Kurnool shall be final and binding on all parties. The IIITDM Kurnool reserves the right to accept the offer in full or in parts or reject the offer summarily or partly without assigning any reasons.

**Sd/-
Registrar I/c**

Technical Specifications for Audio and Video Conferencing System (Annexure-I)

Specifications for Audio Video System at Seminar Hall

| S.No | Description of the Item | Quantity |
|------|--|----------|
| 1 | Supply, Installation, Testing & Commissioning of loudspeakers especially designed for fixed install indoor applications 1" dome tweeter and a 6" Mid / Low frequency driver, ensuring a true-to-nature, high-fidelity reproduction of music and speech ABS housing which is fitted with high-quality components Max. desired power tap for 100 Volt or 8 Ohm can be selected by picking the right terminal Sensitivity (1W/1m) 89 Db , Frequency 65 Hz - 20 kHz | 6 Nos |
| 2 | Supply, Installation, Testing & Commissioning of Dual Channel Digital Power amplifier, 4 x 120Watts @ 100V / 4Ω, 2 X 240Watts @ 100V / 8Ω; Power Amp Topology : Class D; PSU Technology : SMPS; Convection cooled; Hypex inside, Power Supply : SMPS; Protection Circuit : Over Current, Over temperature; Frequency response : 50 - 20KHz; S/N ratio : > 101 dB A-Weighted; THD : 0.07% A Weighted; Power Consumption < 525 Watts; ; 1U 19" rackmount | 1 No |
| 3 | Supply, installation, testing & commissioning of wireless Handled microphone with True diversity half-rack receiver in a full-metal housing with intuitive OLED display for full control, Up to 42 MHz bandwidth with 3520 selectable frequencies, fully tunable in a stable UHF range with Wireless Systems Manager (WSM) control software included for advanced frequency coordination in multi-channel setups. High RF output power (up to 30 mW, adjustable in three steps 10/30/) depending on country regulations with Squelch 5 to 25 dBμV in steps of 2 dB ,Frequency response 40 to 20,000 Hz ,Dynamic range 126 dB(A) ,Pick-up pattern cardioid/super cardioid, switchable with Modulation Wideband FM ,and Power supply 12 V DC . | 2 Nos |
| 4 | Supply, installation, testing & commissioning of UHF Wireless Lavalier Microphone with True diversity half-rack receiver in a full-metal housing with intuitive OLED display for full control, Up to 42 MHz bandwidth with 3520 selectable frequencies, fully tunable in a stable UHF range with Wireless Systems Manager (WSM) control software included for advanced frequency coordination in multi-channel setups. High RF output power (up to 30 mW, adjustable in three steps 10/30/) depending on country regulations with Squelch 5 to 25 dBμV in steps of 2 dB ,Transmission frequency Max. 1680 transmitting frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels, no intermodulation 1 frequency bank with up to 12 programmable channels AF frequency response Mic: 80 – 18,000 Hz Line: 25 – 18,000 Hz, Transducer principle pre-polarized condenser microphone | 2 Nos |
| 5 | Supply, Installation, Testing & Commissioning of metal Gooseneck with integrated Sennheiser KE10 microphone capsule, RF shielding against intermodulation from wireless devices, Streamlined design for seamless integration, Impedance < 100 Ω ,Frequency response (Microphone) 50 Hz - 20 kHz ,transducer principle (Microphone) pre polarized condenser microphone with Solid Microphone Stand, Bi-colored light ring for clear visual feedback, Logical function for easy control, Phantom powering P 24 - P 48 ,Connector Logic: clip contact for logic, Pin assignment: trigger signal at the logic connector: Logic in (external LED control), GND, Logic out | 1 No |

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|---|---|--------------|
| 6 | Supply, installation, testing & commissioning of DSP Ultra high-performance, dual-core Linux processor with capacitive touch controls and a front-panel OLED display. 8 user-configured card slots, with ultimate flexibility to mix and match I/O options for every installation. Wide range of I/O options including analog input/output, AES/EBU, GPIO, Dante, and AEC — with a maximum of 16 audio channels and GPIO channels in the DSP chassis. Supreme audio quality with selectable 48/96kHz sampling, a 40-bit floating point processor, and premium grade mic pre-amps. Exceptionally easy to control, through PC/Mac, Xilica XTouch touch surfaces, complimentary iOS & Android apps, and third-party controllers from brands, It should include not less than 8 x Audio Inputs, 4 X Audio outputs, 2 channel USB I/O , 5 AEC license to activate on board AEC inputs | 1 No |
| 7 | Projector : Technology : 3LCD Color brightness : 4000 lumens White brightness- 4000lumens Resolution : WXGA (1280X800) Aspect – 16:10 Contrast ratio : 15000:1 speaker : 2 W inbuilt Lamp life : 6000 hours on Normal mode/ 12000 hours on ECO mode Keystone ; +/-30 (Horizontal & vertical) Manual Lens shutter- yes Quick corner- yes Image size : 30-300 inches Connectivity's : USB -2.0 , HDMI-2 , VGA IN -1 ,MHL-1, RS232C-1 ,Audio in jack-2, Audio out-1 , LAN port-1, MIC Input , with Ceiling Mount Kit | 2 Nos |
| 8 | 123 inch Diagonal 16:10 Moorized Projection screen | 2 Nos |
| 9 | Display : Active Screen Size ("inch) 86", Display Backlight DLED, Display Area 1893*1069mm, Display Ratio 16 : 9, Resolution 3840*2160 or better, Display Colors 10 bit or better, LCD Brightness 500cd/m2 or better, Contrast Ratio (Typical) 15000:1 or better, Response Time (Typical) 4ms or better, Viewing Angle 178°, Life time (working hours) >50,000 hours or better, Display Orientation Landscape, Reference Frequency 120Hz Speaker : Speakers Shout be SEAMLESSLY build-in the display, Max.Power Output 2x15 Watts or above, Speaker Position Seamlessly mounted in lower side of the display. Front facing, Forward through, Rated Impedance 8Ω, Freq.Response 180Hz-20kHz, Output S.P.L. 84 ± 3dB Touch : Touch Technology Deployment Touch feature should be seamlessly build-in the display and NO overlay is allowed, Touch Sensor Advanced IR, Surface material of touch surface Anti-Glare & Anti-Finger Print Glass, Protection 3M antiglare, Haze 2%~5%, Touch Screen Writing Tools Nano Pen (>3mm width) included or Finger, TOUCH Response time ≤4ms or better, Positioning Accuracy ±1mm or better, Transmission Range 5M, Transparency >88% or better, Surface Hardness H7 or More than H7, Glass thickness 4mm, HID Support Must have a provision to connect with any external sources, Touch Points in Window Must have a touch capability of MINIMUM 20 points, Touch Points in Embedded OS Must have a touch capability of MINIMUM 10 points, Communication Interface inbuilt - USB-A type Ports : Minimum required Input ports at Front side of the display 1 x HDMI(1.4 , 4K@30Hz):- To connect with any resources 1 x Exclusive USB1 for Touch :- To connect with any resources and operate 2 x Exclusive USB for Media Play function:- To directly view the contents from USB 1 x Microphone(3.5mm):-To connect any external microphone Minimum Requirement of AV Inputs at rear side HDMIx1(2.0,4K@60Hz) + USB for Touch Port 1 while using HDMI port HDMIx2 (2.0,4K@60Hz)+ USB for Touch Port 2 while using HDMI port DPx1 (4K@60Hz)+ USB for Touch Port 3 while using Display port VGAx1 (1920x1080@60Hz) + USB for Touch Port 4 while using VGA port. Minimum requirement of AV Outputs at rear side HDMIx1(4K@60Hz)- Transmit the signal to other display with equipment with High definition 3.5mm Line out x 1 DC Out (5V 2A) x1 SPDIF out x 1 Minimum Requirements for other ports at rear side USB 2.0 x2 : - To directly view the contents from USB RS232 x1 :- Device Controlled by any third party controller RJ45 x1 :- Input port of Local area network RJ45 x1 :- Output port of Local area network USB 3.0 x1 :- To connect external USB camera OPS Slot (4K@60Hz):- To connect OPS PC for windows function Self shutdown Must self shutdown during abnormal temperature | 1 No |

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|----|--|-------------|
| 10 | Built In computer (OPS) for above interactive display with Windows OS : OPS PC (4K) Model S044P621, CPU i5-7200U, GHZ 3M Cache, up to 2.80 GHz, RAM 4GB, Hardisk 128G SSD, TPM 2.0, Mic 3,5mm, HDMI 1; HDMI 1.4 4K@24HZ, Lineout 3.5mm, USB2.0 - 2, USB3.0 - 2, 1000 Mbit/ RJ45 - 1, Build-in Wifi - 1, OPS interface TX24A support 4K@60HZ, | 1 No |
| 11 | Fixed wall mount bracket for above display | 1 No |
| 12 | Wooden Podium - Customized | 1 No |
| 13 | : Compact 6-Input Presentation Switcher/Scaler with HDBaseT & HDMI Simultaneous Outputs, Inputs : 4 HDMI connectors (HDMI, HDCP version 1.4) 2 VGA on a 15-pin HD connector 6 unbalanced stereo audio on 3.5mm mini jack connectors 1 mic on a 6.3mm jack connector (with selectable 48V phantom power), Outputs : 1 HDMI connector (HDMI, HDCP version 1.4) 1 HDBT on a RJ-45 connector 1 unbalanced stereo audio on a 3.5mm mini jack connector, INPUT RESOLUTIONS HDMI : 480i, 480p, 576i, 576p, 720p@50Hz, 720p@60Hz, 1080i@50Hz, 1080i@60Hz, 1080p@50Hz, 1080p@60Hz, 1080p@24Hz, 1080p@25Hz, 1080p@30Hz, 640x480@60Hz, 640x480@72Hz, 640x480@75Hz, 640x480@85Hz, 800x600@56Hz, 800x600@60Hz, 800x600@72Hz, 800x600@75Hz, 800x600@85Hz, 1024x768@60Hz, 1024x768@70Hz, 1024x768@75Hz, 1280x1024@60Hz, 1280x1024@75Hz, 1280x720@60Hz, 1920x1080@60Hz, 1280x960@60Hz, 1600x1200@60Hz, 1280x800@60Hz, 1440x900@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1600x900RB@60Hz, 1680x1050RB@60Hz, 1920x1200RB@60Hz, OUTPUT RESOLUTIONS : 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x800@60Hz, 1360x768@60Hz, 1440x900@60Hz, 1280x1024@60Hz, 1400x1050@60Hz, 1680x1050@60Hz, 1600x1200@60Hz, 1920x1200RB@60Hz, 1280x720@60Hz, 1920x1080@60Hz, 720x480p@60Hz, 720x576p@50Hz, 1280x720p@50Hz, 1280x720p@60Hz, 1920x1080i@50Hz, 1920x1080i@60Hz, 1920x1080p@50Hz, 1920x1080p@60Hz, CONTROLS : HDMI 1 to HDMI 4 and PC 1 to PC 2 input selector buttons, Input select contact closure, Menu and navigation buttons, Reset to XGA/720p and panel lock buttons, RS-232 (control and data), Ethernet (OSD and Web pages) OPERATING TEMPERATURE : 0° to +40°C (32° to 104°F), STORAGE TEMPERATURE : -40° to +70°C (-40° to 158°F), HUMIDITY : 10% to 90%, RHL non-condensing, OTHER HIGHLIGHTS : HDMI and VGA Inputs; HDMI and HDBaseT Outputs, Microphone Input, Auto-Input Switching, Built-in ProcAmp, Control — Ethernet with built-in Web pages, On-Screen Display), RS-232, contact closure | 1 No |
| 14 | 4K60 4:2:0 HDMI HDCP 2.2 Receiver with RS-232 & IR over Long-Reach HDBaseT RECEIVER INPUTS : 1 HDBT on an RJ-45 female connector, RECEIVER OUTPUTS : 1 HDMI: On a female HDMI connector 1 Unbalanced Stereo Audio: On a 3.5mm mini jack 1 S/PDIF: On an RCA connector, EXTENSION LINE : HDBaseT 1.0 compliant Up to 40m (130ft) at 4K @60Hz (4:2:0) Up to 70m (230ft) at full HD (1080p @60Hz 36bpp), VIDEO : Up to 10.2Gbps bandwidth (3.4Gbps per graphic channel) Up to 4K UHD @60Hz (4:2:0) 24bpp resolution HDMI 2.0 and HDCP 2.2 signal compliance, CONTROL RS-232 : 115200 baud rate, OPERATING TEMPERATURE : 0° to +40°C (32° to 104°F), STORAGE TEMPERATURE : -40° to +70°C (-40° to 158°F), HUMIDITY : 10% to 90%, RHL non-condensing | 1 No |
| 15 | Bulk cables, speaker cables, Audio cables, CATXX, USB Cables cables and connectors (As required), | 1 No |
| 16 | Equipment Rack -12U | 1 No |
| 17 | Installation Labour, Design and Project Management, as required etc | 1 No |

Specifications for Audio Video System for Class Room

| S.No | Description of the Item | Quantity |
|-------------|--|-----------------|
| 1 | Supply, Installation, Testing & Commissioning 2-way performance whether proof wall mount speaker 1" dome tweeter and a 5 1/4" low-frequency loudspeaker, capable of delivering a power of 50 Watt. It can be used in standard 8 Ohm systems but also in 100V PA systems with power taps for 40 Watt, 20 Watt and 10 Watt. WX MK2 series wall speaker, while daisy-chaining is made more convenient through additional connection terminals (4-pin).. Both indoor and outdoor versions | 4 Nos |
| 2 | Supply, installation, testing of The COM series public address mixing amplifiers for small to medium size commercial sound systems. Different configurations in terms of output power and connectivity provide enormous flexibility for numerous applications. Capable of delivering an output power of 240 Watt to 100 Volt constant voltage systems or 4 Ohm low impedance loads. Six input channels with individual level control allow connectivity and mixing to a wide variation of music sources. Four balanced microphone inputs (XLR) containing phantom power (15V) and two priority allow connection for almost any (dynamic or condenser) microphone. Two inputs selectable between stereo unbalanced line (RCA) and microphone (6.3mm Jack) allow connection for any source such as CD-player, music computer or portable device, or enable to expand the total microphone count to 6. The remote microphone and tele-paging inputs allow expansion of the system with a paging station (with chime tones) or couple the system with your business telecom system (or any other priority line source). Using the priority mute contact, coupling and muting can be done through an external fire alarm system. The output level can be adjusted using a master volume control accompanied with 2-band tone regulation. The level is indicated with a 5-segment VU-bar while output selection is made possible using an integrated 5-zone speaker switcher. Both table-top installation or 19" (2HE) equipment rack mounting is made possible using the included adapters. | 1 No |
| 3 | Supply, installation, testing & commissioning of wireless Handheld microphone with True diversity half-rack receiver in a full-metal housing with intuitive OLED display for full control, Up to 42 MHz bandwidth with 3520 selectable frequencies, fully tunable in a stable UHF range with Wireless Systems Manager (WSM) control software included for advanced frequency coordination in multi-channel setups. High RF output power (up to 30 mW, adjustable in three steps 10/30/) depending on country regulations with Squelch 5 to 25 dBµV in steps of 2 dB, Frequency response 40 to 20,000 Hz, Dynamic range 126 dB(A), Pick-up pattern cardioid/super cardioid, switchable with Modulation Wideband FM, and Power supply 12 V DC. | 1 No |
| 4 | Supply, installation, testing & commissioning of UHF Wireless Lavalier Microphone with True diversity half-rack receiver in a full-metal housing with intuitive OLED display for full control, Up to 42 MHz bandwidth with 3520 selectable frequencies, fully tunable in a stable UHF range with Wireless Systems Manager (WSM) control software included for advanced frequency coordination in multi-channel setups. High RF output power (up to 30 mW, adjustable in three steps 10/30/) depending on country regulations with Squelch 5 to 25 dBµV in steps of 2 dB, Transmission frequency Max. 1680 transmitting frequencies, adjustable in 25 kHz steps 20 frequency banks, each with up to 12 factory-preset channels, no intermodulation 1 frequency bank with up to 12 programmable channels AF frequency response Mic: 80 – 18,000 Hz Line: 25 – 18,000 Hz, Transducer principle pre-polarized condenser microphone | 1 No |
| 5 | Bulk cables, speaker cables, Audio cables, CATXX, USB Cables cables and connectors (As required), | 1 No |
| 6 | Equipment Rack -6U | 1 No |

| | | |
|---|---|------|
| 7 | Installation Labour, Design and Project Management, as required etc | 1 No |
|---|---|------|

Specifications for Video Conferencing System at Directors Room

| S.No | Description of the Item | Quantity |
|------|---|----------|
| 1 | <p>Full HD 1080p camera, Full HD 1080p Codec, Microphone, Cables, and Wireless Remote Control Protocols H.323 and SIP Compliant, .261, H.263, H.264. The system should support higher VideoCompression protocols such as H.264 SVC/H.265, H.239 , BFCP, H.263 & H.264 Video error concealment, G.711, G.722, G.722.1 audio protocols, H.281 far end camera control.</p> <p>Video Inputs - It should have 1 x HD Camera Interface. It should have another inbuilt 2 x HDMI/DVI/VGA port for PC,Document Camera etc. VideoOutputs -It should have at least 2 x HDMI/DVI ports to connect displays. Main Video Resolutions - Shall work in high definition video resolution of 1080p60fps for live video</p> <p>for both Transmit and receive, Content Resolutions - The system should support 1080p30fps content along with 1080p30fps Main Video - Should be supplied with 49 inch Full Commercial display, on a portable VC Trolley . This trolley should have a mounting mechanism/ camera mouont and codec mount</p> | 1 Nos |

Signature and Stamp of bidder

Annexure-II

Manufacturer's Authorization Form

To

Director
IIITDM KURNOOL
JAGANNATHAGATTU,
ANDHRAPRADESH

Ref: Bid Reference No.: **IIITDMK/2020-21/S&P/Audio & Video Conferencing System/3** Dated **18 Aug 2020**

We,, who are proven and reputable
Manufacturer/exclusive distributors of (Name and
description of the goods offered in the Bid) having factories/office at
..... hereby authorize M/s
..... (name and
address of the agent) to submit a Bid, against your requirement as contained in the above referred
Bidding Documents for the above goods manufactured/ distributed by us.

We further confirm that no supplier or firm or individual other than M/s. (name and address of the above agent) is authorized to submit a Bid, against your requirement as contained in the above referred Bidding Documents for the above goods manufactured by us

We also hereby extend our full warranty of _____ from acceptance of goods by Purchaser as per Clause 8 of General Terms & Conditions. We further confirm that we shall continue to supply spare parts, software up- gradation for 03 years after guarantee/warranty.

Yours faithfully,

[Signature with date,
name and
designation]
For and on behalf of
M/s.
[Name & address of
the manufacturers].

Note: 1. This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Annexure-III

FINANCIAL BID
(To be put in the marked envelope "Financial Bid")

Bid Reference No.: **IIITDMK/2020-21/S&P/Audio & Video Conferencing System/3** Dated **18 Aug 2020**

Bidder Name & Address:.....

| S.No | Description of the item | Qty | (A) Unit Price per Item | (B) GST (In Rs.), if applicable | (C)Freight/F.O.R/ transport/delivery & all other charges (In Rs.), If applicable | (A+B+C) Offered Price (In Rs.) |
|-------------|---|------------|--------------------------------|--|---|---------------------------------------|
| 1. | Supply and Installation of Audio Video System at Seminar Hall | 1 Job | | | | |
| 2 | Supply and Installation of Audio Video System at Class Room | 1 Job | | | | |
| 3 | Supply and Installation of Video Conference at Directors room | 1 Job | | | | |

COMMERCIAL TERMS

1. We hereby undertake that no extra charges on any account will be claimed except as mentioned above.
2. We hereby undertake to strictly abide by the Commercial and other terms laid down in the Tender.

(AUTHORIZED SIGNATORY]
NAME IN BLOCK LETTERS
SEAL OF THE TENDERER