**INVITATION TO TENDER**

**AND**

**INSTRUCTIONS TO TENDERERS**

**FOR THE SUPPLY OF**

**VIDEO CONFERENCING EQUIPMENT**

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**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR**

**ANANTHAPURAMU – 515 002 (A.P)**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR ANANTHAPURAMU**

INVITATION TO TENDER AND

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**FOR THE SUPPLY OF VIDEO CONFERENCING EQUIPMENT FOR**

**JNTUA ANANTHAPURMU**

Jawaharlal Nehru Technological University Anantapur, Ananthapuramu invites tenders for the supply of Video Conferencing Equipment as per specifications given in the schedule attached to the Tender form annexed hereto. All offers should be made in English and should be written in both figures and words.

The tender schedules can be obtained from the Registrar, JNT University Anantapur, Ananthapuramu on payment of Rs.2,290/- (Rs.2,000/- +14.5% Sales Tax) in the form of crossed Demand Draft on any Nationalised Bank drawn in favour of the “The Registrar, JNTUA, Ananthapuramu” payable at Ananthapuramu. Alternatively the tender schedules can be down loaded from the website [www.jntua.ac.in](http://www.jntua.ac.in). Such vendors who use downloaded tender schedules for submitting bids must enclose a demand draft for Rs.2,000/- +14.5% Sales Tax towards the tender fee along with the bid in addition to EMD, otherwise the bid will be rejected.

**Note: The DD for Rs.2,290/- (Rs.2000+14.5% Sales Tax), towards the tender document fee, drawn in favour of the Registrar, JNT University Anantapur, Ananthapuramu** **on any Nationalised bank should have been obtained not before 15-12-2016.**

Tender fee once paid is neither refundable not adjustable for other tenders.

The JNT University Anantapur, Ananthapuramu reserves the right to select the item or to reject it. The JNT University Anantapur, Ananthapuramu also reserves the right to revise or alter the specifications of the Video Conferencing Equipment before acceptance of any tender.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored, and rejected.

**EMD:**

A Demand Draft, for **Rs.32,000/-** (Rupees Thirty Two Thousand only) drawn in favour of the “The Registrar, JNTUA, Ananthapuramu”, towards EMD must accompany the tender. Those tenders without EMD will be rejected. The EMD will be refunded to all the unsuccessful tenderers only after the purchase orders are placed on the successful tenderer. The successful tenderer has to deposit an additional amount at **3%** on the contract value as Security Money Deposit.

The final acceptance of the material will be made only after delivering at our end in good condition and subject to satisfying all the specifications given by the University/College.

**BID PRICE:**

1. The contract shall be for the full quantity as described in the tender. Corrections, if any, shall be made by crossing out, initialling, dating and re-writing.

2. All duties, taxes and other levies payable by the vendor shall be included in the total price. Further, it is to be noted that JNTUA is registered with the Department of Scientific & Industrial Research (DSIR) for availing Customs/Central Excise duty exemption and the prices shall be quoted accordingly.

3. The rates quoted by the bidder shall be fixed for the duration of the contract and shall be included in the total price.

4. The prices should be quoted in Indian Rupees only.

5. The prices should be quoted with FOR destination.

6. Packing, forwarding, insurance etc to vendors account.

7. After satisfactory installation, testing and demonstration, training has to be provided to faculty and staff to the satisfaction of the purchaser at vendor’s cost.

8. The operation and maintenance manuals and lab manuals are to be supplied at vender’s cost.

9. All essential accessories cost must be included in the price quoted.

10. The cost of essential spares are to be quoted separately. This will be taken to into consideration while bids are evaluated.

11. Price bids are to be essentially signed by the vendor or person authorized by him.

12. Each bidder shall submit only one quotation. Alternatives offer option, if any, must be quoted in separate tender schedule.

**VALIDITY OF QUOTATION**

Quotation shall remain valid for a period of three months after the deadline date specified for submission. The vendor shall extend the validity if required.

**BIDDER QUALIFICATIONS**

1. Bidder/OEM Should have established office & Registration in India from minimum of last 5 years.

2. Bidder/OEM must be a registered company with Sales Tax and Excise Departments and a true copy of the such registration documents (PAN, VAT, Service Tax & TIN) should be submitted along with the bid.

3. Bidder/OEM Should be IS0 9001:2008 Certified company

4. Bidder/OEM should have at least 10 Implementations in Govt/Army/PSU/Banks and Reference/appreciation/Implementation completion letters to be furnished along with tender submission

5. Bidder/OEM should have atleast 2 implementations in any Education Institutions / Universities. PO copy/implementation completion report to be submitted.

6. The bidder/OEM should submit the financial turnover report for the last three years.

7. The bidder/OEM should submit the list of customers (Govt. Organizations/Universities) along with year of supply and details of equipment supplied.

8. The bidder/OEM should submit Satisfactory Performance Certificates from the customers of this equipment. The product approval certificate, if any, from reputed organizations may also be submitted.

9. Bidder/OEM debarred/ blacklisted by any Central or State Govt. / Quasi –Govt. Departments or organizations as on bid calling date for non-satisfactory past performance, corrupt, fraudulent or any other unethical business practices shall not be eligible.

10. The Registrar, JNT University Anantapur, Ananthapuramu reserves the right to assess the capacity / capability of the suppliers in the overall interest of the Institute without assigning any reason.

11. Video conferencing equipment and software should be compellable with all Government and Private Video conferencing networks.

**EVALUATION OF QUOTATIONS:**

 The purchaser will evaluate and compare the quotations determined to be substantially responsive i.e; whether they are

1. Properly signed;
2. Conform to the terms and conditions, and specifications mentioned in this tender.
3. The quotations unless otherwise specified would be evaluated separately for each item, and
4. If the bidder is not the Original Equipment Manufacturer (OEM) they must Provide an authorization certificate from the Original Equipment Manufacturer, stating that the bidder is an approved agent of OEM and service warranty will be guaranteed by OEM in case the agent’s license is aborted or any other reason whatsoever during the warranty period.

**AWARD OF CONTRACT:**

The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

1. Notwithstanding the above, the purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

2. The institution reserves the right to place the orders for individual items with different tenders.

**3. Right to Acceptance:**

The Registrar, JNT University Anantapur, Ananthapuramu does not bind himself to accept the lowest on any tender and reserves to himself the right of accepting the whole or any part of the tender or portion of the quantity offered the tenderer shall supply the same at the rate quoted.

4. The bidder, whose bid is accepted, will be notified for the award of contract by the purchaser prior to expiry of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

**DELIVERY:**

 All the goods ordered shall be delivered with proper packing within 30 days from the date of issue of order. All the goods shall be delivered at JNTUA, Ananthapuramu.

**TERMS OF PAYMENT:**

a) Payment shall be made by the Registrar, JNT University Anantapur, Ananthapuramu, after delivery at the specified location, and after installation, commissioning and satisfactory demonstration of the goods with all specifications and standards to the entire satisfaction of the college.

b) The bidder may give the details of bank and Account into which the payments are to be made.

c) Normal commercial warranty/guarantee shall be applicable to the supplied goods.

**DELIVERY OF TENDER:**

 Bids for schedule of the tender is to be placed in separate envelope, clearly mentioning schedule No. U.O.226 on it. The Envelope must be super-scribed with the reference No.(JNTUA/DAPO/TENDER/Video Conferencing Equipment/2016/Schedule No.U.O.226, dated: 15-12-2016)

The sealed tender should be addressed to :

 **The Registrar,**

 **JNT University Anantapur,**

 **Ananthapuramu.**

 **Pin code: 515 002.**

 **Bids in sealed covers should reach the above address latest by 4:00 PM hours on 30-12-2016. Tenders submitted after the specified time shall not be considered and no intimation will be sent in this regard.**

The University reserves the Right to reject any tender which fails to comply with the above instructions. All tenders should be sent by Post or through messenger, to drop the tender in the sealed tender box provided in the office. It is the responsibility of the tenderer to see that his tender offer is delivered by the specified time at the above address. All further communication should be addressed to the officer named above and by title only.

**OTHER TERMS:**

 Tenderer should make their representative available on 30-12-2016 at 4:00 PM at the time of opening tenders in the chambers of Registrar or any other designated place within the University.

 The tenderer should produce Value Added Tax (VAT)-Registration certificate.

 **Tenderer should be responsible and bear any price escalation within the validity period and also after the indent has been placed till the supply.**

Sd/- REGISTRAR

**BID PARTICULARS**

1. Name of the Supplier :

2. Address of the Supplier :

3. Address of the Show Room/Workshop :

4. Display of goods : Yes / No

5. EMD enclosed : Yes / No

 DD No.\_\_\_\_\_\_\_\_\_\_\_\_\_ Bank:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Amount\_\_\_\_\_\_\_\_\_

6. Name and address of the officer to whom all reference shall be made regarding this tender enquiry

 Name :

 Address :

 Telephone No. :

 Fax No. :

 Mobile No. :

 e-mail :

 website :

**FORMAT OF QUOTATION**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S.No.** | **Schedule No...(As given in the Annexure)** | **Description Goods** | **Specifications** | **Qty.** | **Unit** | **Quoted Unit rate in Rs.** | **Total Amount** |
| **in Figures** | **in words** |
|  |  |  |  |  |  |  |  |  |

**Gross Total Cost: Rs...............................**

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs....................... (Amount in figures)......................................... (Rs. Amount in words) within the period specified in the invitation for Quotations.

We also confirm that the normal commercial warrantee / guarantee of ............... months shall apply to the offered goods.

**Signature for Supplier**

 **with seal**

**ABSTRACT OF EQUIPMENT**

Name of the Equipment: **Video Conferencing Equipment**

|  |  |
| --- | --- |
| **Schedule No.** | **Name of the Equipment** |
| U.O.226 | Video Conferencing Equipment |

Detailed specifications of equipment is given in ANNEXURE.

|  |  |
| --- | --- |
| Jntu Logo | **JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR****COLLEGE OF ENGINEERING (Autonomous),****ANANTHAPURAMU-515002 (A.P)** |
| Ref.No.: JNTUA/DAPO/TENDER/Video Conferencing Equipment/2016/Schedule No.U.O.226 Date: 15-12-2016**TENDER NOTICE**Sealed tenders are invited from the reputed dealers/suppliers for the supply of Video Conferencing Equipment for Jawaharlal Nehru Technological University Anantapur, Ananthapuramu. Details of the tender can be obtained separately from the undersigned from 15-12-2016 on payment of Rs. 2000 + 14.5% Sales Tax (Non refundable) in the form of Demand Draft payable at Ananthapuramu favouring of **the Registrar, JNT University Anantapur, Ananthapuramu** drawn on any nationalized bank, not before 15-12-2016. The tender document can also be downloaded from our website [www.jntua.ac.in](http://www.jntua.ac.in). The sealed tenders should reach the undersigned on or before 30-12-2016 by 4:00 PM. **Sd/-****REGISTRAR** |

**ANNEXURE**

**SPECIFICATIONS OF VIDEO CONFERENCING SYSTEM**

|  |  |
| --- | --- |
|  **Name of the material** | **Qty.** |
| Video conference cameras | 2 |
| speaker and microphone | 6 |
| Wireless Audio Device Cascaded three units with DSP echo cancellation and external speaker  | 1 |
| Multiparty control unit | 10 |
| USB Capture Card  | 6 |
| Camera Cables 5 meters USB 3.0 | 2 |
| Composite Cables , RCA 5meters | 6 |
| Mixer to PC audio Cables - XLR to 3.5mmJack cable 20 mtrs  | 4 |
| 55 Inch display | 1 |
| 65 Inch Display | 1 |

**Specifications of Video conference cameras:**

|  |  |
| --- | --- |
| **Parameter** | **Specifications** |
| Sensor | The camera sensor should be 1/2.8 Exmor CMOS, 3.27 M or better. |
| Scene illumination | The camera should have a Minimum illumination of .1Lux.  |
| White Balance | The camera should have an Option of Auto or Manual White Balance. |
| Gain | The camera should have an auto Gain Control  |
| Back Light Compensation | The camera should have a selectable Back-light compensation  |
| S/N ratio | The camera should have a S/N Ratio of >50db.  |
| Focus | The camera Lens should have an Auto Focus.  |
| Iris | The camera should have an Auto/Manual Iris  |
| Optical Zoom | The camera should have a 20 X or more Optical Zoom. |
| Digital Zoom | The camera should have a 12 X or more digital Zoom. |
| Interface | The camera should have a standard Video Output either through USB 3.0 or through HDMI, DVI or better.  |
| Signal Support | The camera should support signals: 1080P@30, 720P@30. |
| Control Port | The camera should have an RS 232 port for Communication EIA/RS-232, EIA/RS-485Bidirectional）  |
| Presets | The camera should have atleast 40 Position Presets |
| OSD | The camera should support OSD Menu for checking status |
| Image Flip | The camera should support Vertical and Horizontal Image Auto Flip |
| Pan Range | The camera should have a Pan Rotation Angle of -160 degrees to +160 Degrees or better |
| Tilt Range | The camera should have a Tilt Rotation Angle of -20 degrees to + 20 degrees or better  |
| Accessory | The camera should be supplied with IR remote control as an included accessory. |

**Speaker and Microphone specifications**:

|  |  |
| --- | --- |
| **Audio Interface** | It should have USB 2.0 port or higher. |
| **Output Port** | It should have 3.5mm Stereo Output Port. |
| **Gain** | Should have a Speaker gain control of < 12 dB or better. |
| **ALC** | Should have an Automatic Level Control of < 18 dB or better. |
| **Noise reduction** | Should have a Noise Reduction of < 16dB or better |
| **Output level** | Should have an Output Level of > 87dBA or more |
| **Pickup** | Should have an Audio Pickup of 8ft radial or better. |
| **AEC** | Should have an Acoustic Echo Cancellation |
| **Audio Features** | Should have Automatic Echo Cancellation, Automatic Gain Control, Automatic Noise reduction, Automatic Non Linear Processing, Automatic Level Control, Automatic Microphone Equalizer. |
| **Temperature** | It should have an operating temperature of 0 to 40 degrees Celsius or better. |
| **Humidity** | It should support Non- Operating humidity ( Non Condensation) of 20-85% or better. |

**Wireless Audio Conference Solution for Conference Room**

Complete Audio Conference System comprising of 3 Wireless High gain omnidirectional microphones with inbuilt Battery backup for at least 10Hours along with the DSP based echo cancellation and Wireless base station and External Speakers.

**MCU Specifications:**

|  |  |  |
| --- | --- | --- |
| **Sl.No.** | **Parameter** | **Specifications** |
| 1 | MCU | Appliance based/Server based 10 FHD 1080p30/60 port MCU.The backup MCU appliance should also be provided along with it so that in case One MCU is down the other backup MCU Appliance is made up and running within few minutes. It should be scalable to support upto 50 Full HD Ports in the same hardware/Chasis. |
| 2 | Single Multi-PartyConference & Point to Point Call Support | Solution should be able to connect minimum 10 locations at Full HD resolution (1080p) in a Single Video conference and the Solution offered should also support 5 Concurrent Sessions of 2 Party Video Conference (Point to Point) each in Full HD Resolution from Day 1 |
| 3 | Firewall traversal | System should support firewall traversal for secured calling thro' internet and Intranet right from day 1 |
| 4 | H.323 with H.239 / SIP | The Solution should have capability to connect at least 5 Full High Definition IP Based H.323 / SIP based Hardware Video Conference devices at the same time at HD Resolution. The Solution should also able to share data presentations using H.239 with H.323 user. |

|  |  |  |
| --- | --- | --- |
| 5 | Desktop & Mobile connectivity | Solution should support Windows desktop, Android, IOS Mobile devices right from day 1 and should offer 200 registered users from Day 1. Easy connectivity with MCU to be a part of video call. |
| 6 | Recording | MCU appliance should have either inbuilt video recording capability or offer external Video Recording Server with the capacity to Record Min 5 Concurrent full HD 1080p30/60 Secessions right from Day 1 with Min 3000 Hrs of Recording Storage at central location . |
| 7 | Data Collaboration | Solution should have capability to share Data in conference right from Day 1 |
| 8 | Audio Codec | Solution should have G.711/ G.722 / G.723/ GIPS OR equivalent Audio Codec for good quality Audio communication at lower bandwidth |
| 9 | Video Codec | Solution should haveH.264/ H.264 SVC/ H.264VBR/ H.264HP/H.264AVC /H.265 or better Video Codec for good video quality at lower bandwidth. It should also support mandatorily ITU Standard based H.264 and H.263 in order to ensure smooth interoperatibility between different systems  |
| 10 | Security | System should be 128-bit Fully Encrypted Video Conference Meetings to ensure encrypted data flows between endpoint & MCU. |
| 11 | Multi Camera Channel Support | Solution should support three Cameras connectivity either inbuilt or through external Video mixer and all Cameras should be active at the same time and visible to far end location |

**Screens Specifications:**

**55 inch display:**

Full HD,1920x1080,   Aspect ratio 16:9, Brightness 350nit, Contrast Ratio 5000:1, View Angel 178:178, Built in Speakers 10+10W,  **Ports: USB** , HDMI-2, DVI, RJ45, VGA, RS232, 16X7 Application

**65 Inch Display**

 Full HD,1920x1080,  Aspect ratio 16:9, Brightness 450nit, Contrast Ratio 5000:1, View Angel 178:178, Built in Speakers 10+10W,  Built In Media Player, Ports: USB , HDMI-2, DVI, RJ45, VGA, RS232, 24X7 Application