



# NATIONAL INSTITUTE OF TECHNOLOGY PATNA

(An Institute under Ministry of HRD, Govt. of India)

**ASHOK RAJPATH, PATNA-800 005 (BIHAR)**

Ph. 0612-2371715, 2372715, 2371929 Fax-061-2660480

Website- [www.nitp.ac.in](http://www.nitp.ac.in) e-mail-[registrar@nitp.ac.in](mailto:registrar@nitp.ac.in)

Ref No: NITP/Proc/IT/14

Date: 16.7.2018

## **Sub: Supply & Installation of Video Conferencing (1+5 party) system at NIT Patna**

National Institute of Technology Patna, an Institute of National Importance, invites sealed tenders from reputed Original Equipment Manufacturers / Authorized Dealers / Bidders for quality procurement of Supply & Installation of Video Conferencing (1+5 party) system at NIT Patna

All interested tenderes are requested to send their sealed quotation as per technical specifications in **Annexure – I (a) & (b)** and price bid as per **Annexure-III (a)**. For general terms & conditions, instructions to bidders etc. please refer **Annexure-II**

Tender will be accepted by **13.8.2018 up to 12:30 p.m.**

Detailed descriptions of the item and instructions for submitting your offer can be downloaded from our website [www.nitp.ac.in](http://www.nitp.ac.in). However, a cross Demand Draft of **Rs.200/- (Non-refundable)** towards Tender Fee in favor of the **Registrar, NIT Patna** payable at Patna should be submitted in a Separate sealed envelope along with your quotation.

The proposals must be sent in sealed envelope duly subscribed with Reference number and Tender Notice details as appended hereunder:-

<b>TENDER FOR Supply &amp; Installation of Video Conferencing (1+5 party) at NIT Patna</b>	
TENDER REF NO: - NITP/Proc/IT/14	DATED 16.7.2018
LAST DATE FOR SUBMISSION. <b><u>13.8.2018</u></b> UPTO 12:30 PM.	
<b>To,</b>	
<b>The Registrar</b>	
<b>National Institute of Technology Patna</b>	
<b>Bihar, INDIA</b>	
<b>From: M/s</b> _____	
<b>Address:</b> _____	
<b>Contact No.:</b> _____	
<b>Email ID:</b> _____	

The bid will be **opened on 13.8.2018 at 3:30 PM**, in the CSE department at NIT Patna, in the presence of the Bidders/Vendors or their authorized representative who wish to be present.

Registrar

## TECHNICAL SPECIFICATIONS

### Codec

Sl.No	Product Description	
1	Video Standards	H.261, H.263, H263+, H.263++ , H.264 High Profile, H.264 Baseline Profile or above
2	Video Frame Rate	Should support 60 fps with 1080p resolution from day one or above
3	Video Features	Ability to send and receive two live simultaneous video sources in a single call, so that the image from the main camera and PC or document camera can be seen simultaneously.
		Should support H.239 and BFCP protocols with 1080p resolution or above
4	Multi-Point Feature	Should have 6-way SIP/H.323 in 1080p/60fps Multipoint video conference feature enabled from day 1(Using inbuilt or external Hardware/Software) expandable up to 10 ways or more
5	Video	Should support 3 monitors for Self-View, Remote View and Content all in separate Monitors.
6	Video Output	Should have at least 4 nos. of HDMI / Component (High Definition Multimedia Interface) output to connect Full High Definition display devices such as plasma and projectors for both Video and Content. (Dual Monitor Support) or more
		Should support 3 monitors for Self-View, Remote View and Content all in separate Monitors or more
7	Video Input	Should have at least 2 HD video Input to connect full HD cameras.
		Should have at least one additional video Input to connect auxiliary full HD camera.
		Should have VGA/DVI/HDMI port to connect PC/ Laptop directly to the Video conferencing system and display resolutions up to 1080p
8	Audio standards supported	G.711, G.722, G.722.1, 64 kbps MPEG-4 AAC-LD or equivalent standard must be supported.
9	Other desirable features	Noise Reduction, Automatic Gain control, Acoustic Echo Canceller,
10	Audio Input	Should support 4 or more Microphone inputs from day one
		The pickup of the microphones should be at least 10 feet from the microphone
		Echo Cancellation for every input must be available
11	External devices	Should have USB port
12	Network Interfaces	2 LAN /Ethernet-10/100/1000 Mbps full duplex or more Should have support for IPV4 networks
13	Security: Menu Control	Password protected system menu

14	Encryption of video call	<ul style="list-style-type: none"> <li>• ITU-T standards-based Encryption of the video call</li> <li>• Call should be encrypted end-to-end on IP</li> <li>• Should support Standards-based: SRTP (AES 128 bit), H.235 (AES 128 bit)</li> </ul>
15	Warranty	Minimum 3(Three) year warranty should be provided for this unit from the date of successful commissioning
16	Multi point license	Perpetual, no need of renewal of 6-way SIP/H.323 MULTI-POINTS.

### Microphone Description

Sl.No	Product Description	
(a)	Pickup Range	Approx. 4 m(radius), 360° or above
(b)	Pickup Method	Stereo / Monaural*
(c)	Microphone Unit	Unidirectional ECM microphone parts x 4
(d)	Number of Connections	4 microphones or above
(e)	Input Sound Pressure	110 dBspl or more
(f)	Number of Terminals for Microphone Connection	2 or more
(g)	Cable Length	Approx. 8.5 m or more
(h)	Power Input	Supplied from main unit via proprietary cable
(i)	Operating Temperature	0 °C to 40 °C or better

### Camera Specification Type 1

SL.No	Product Description	
(a)	Effective Pixels	1920 x 1080/60p or better
(b)	Pan / Tilt	Pan: ±130°, Tilt: +90°/-25° or better
(c)	Zoom (Optical /Digital)	12x / 10x
(d)	Horizontal Angle of View	72.5° or better
(e)	Presets	9 positions or more
(f)	Connection Cable	HDMI
(g)	Power Supply	DC 12V
(h)	Power Consumption	1.2 A or less
(i)	Operating Temperature	0 °C to 40 °C or better

## Camera Specification Type 2

Sl.No	Product Description	
(a)	Effective Pixels	1920 x 1080/60p or better
(b)	Pan / Tilt	Pan: $\pm 100^\circ$ , Tilt: $\pm 20^\circ$ or better
(c)	Zoom (Optical /Digital)	3x / 4x
(d)	Presets	9 positions or more
(f)	Connection Cable	HDMI
(g)	Power Supply	DC 16V
(h)	Power Consumption	600MA or less
(i)	Operating Temperature	0 °C to +40 °C or better

## HDMI Cable & Accessories Specification

Sl.No	Product Description
1 (a)	HDMI Cable (15m) Minimum Video Resolution: 4096*2160@30HZ Rating: ULVM-1(flame Rate), CSA Operating Temperature: up to 80-degree C
(b)	HDMI Cable (10m) Minimum Video Resolution: 4096*2160@30HZ Rating: ULVM-1(flame Rate), CSA Operating Temperature: up to 80-degree C
(c)	HDMI Cable (5m) Resolution :4096*2160@30HZ Rating: ULVM-1(flame Rate), CSA Operating Temperature: up to 80-degree C
2.	Power Point 5 A with 3 core Cabling in PVC beat/ Pipe with Switch socket with base Make: Anchor/ Havells/ Finolex
3.	8mm or above Thick Glass Rack for Codec & Camera
4	All Required Jacks, sockets etc.

**FORMAT OF COMPLIANCE STATEMENT**

<b>Para of Tender Enquiry Specification</b>	<b>Specification of Equipment Offered</b>	<b>Compliance to Tender specification whether yes or no (if yes indicate the page no and Put a Flag also highlights the matching specification)</b>	<b>In case of noncompliance deviation from Tender specification to be indicated in unambiguous term.</b>
<b>01</b>	<b>02</b>	<b>03</b>	<b>04</b>
<b>As per technical specification Annexure-1 A</b>			

- The compliance certificate along with the page no indication (i.e. required spec and availability of the page in the entire tender documents by flagging or giving page no) must be submitted with the bid for evaluation. Firm not submitting the model/spec and their details availability in the bid documents by flagging/page no may not be considered for evaluation.

**NOTE: The bid documents are not transferable and the firm's seal and signature of the authorized official must appear on all papers and envelopes submitted.**

### **INSTRUCTION TO BIDDERS**

**01.** Tenders will have to be submitted with technical literature and other necessary documents should be submitted into a single sealed cover. Also the address of the firm submitting the tender and the officer, to whom the tender is addressed.

**02. In the part relating to Technical specification, the OEM/Vendor must provide the followings: -**

- a. Details of the technical features of the offered Equipment vis-à-vis specification as per Annexure-I;
- b. Standard Technical literature on each of the items offered the article on offer should conform to standard quality, specification and test of manufacturer;
- c. Bidder should have exclusive authorization for NITP in case bidder is not an OEM
- d. The bidder should have minimum cumulative turnover of 3cr in last three financial years.
- e. Copy of GST& PAN should be enclosed by bidder.
- f. Banker's details of tendering FIRM /Bidder should be clearly mentioned.
- g. Details of nature and **Warranty period** offered by the OEM/Bidder;
- h. The OEM quoted should have more than 15 year's presence in India.
- i. The OEM quoted should have its authorized service center at Patna
- j. A copy of price bid without mentioning the prices will have to be provided as a part of Technical Bid Document.

**03.** In the part relating to Price, the OEM/Vendor must also provide the Prices of each of the optional accessories, as required by the specifications and may be relevant for offered Equipment. It will have to be specifically stated in the quotation.

**04.** Installation & Commissioning of entire Setup including accessories is the responsibility of the bidder.

#### **Terms & Conditions: -**

01. Rates: Rates quoted should be on F.O.R., NIT Patna, on Door Delivery basis mentioning all taxes/break-up separately.
02. Warranty/Guarantee: The material must be quoted with a minimum comprehensive onsite Warranty / Guarantee period of 36 months after the date of installation and acceptance at final destination.
03. Validity: Quoted rates must valid for 180 days.
04. Delivery: Unless otherwise stated delivery of goods at NIT Patna, will have to be maximum within 10 days from the date of receipt of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the OEM / Bidder.
05. Printed conditions of supply of the firm, if any, will not be binding on us.
06. Late and delayed Tenders: Late and delayed tender will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date, the next working day shall be the prescribed date of closing/opening.

07. Ground for Rejection of Tender: The tenders are liable to be rejected if the fore going conditions are not complied with. The tender should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.
08. Payment Terms: -  
100% payment against proforma invoice will be released after receiving of stores in good order and condition and successful installation and commissioning duly certified by the concern authority. The payment will be made by RTGS/FUND Transfer mode only.
09. TDS as applicable will be deducted from bill.
10. *Excise Duty*: The Institute is **exempted** from payment of Central Excise Duty vide GOI Notification No.10/97-Central Excise, dated 01.03.97 with Regn No. TU/V/RG-CDE(1211)/2017, dated 28.12.2017. **Customs Duty**: The Institute is **exempted** from payment of Customs Duty vide GOI Notification No.51/96-Customs, dated 23.07.96, with Regn. No. TU/V/RG-CDE(1211)/2017, dated 28.12.2017.
11. *Entry Tax*: Entry tax, if applicable will be borne by us as applicable on FOR NITP value. The OEM may arrange Road Permit on their own and get it reimbursed from the Institute on production of valid document. Road permit once issued will not change / altered in any circumstances. If any alteration is required due to fault from OEM side the same will be debited to supplier's A/c
12. Liquidated Damage: If a firm accepts an order and fails to execute the order in full as per the terms and conditions stipulated therein, it will be open to this institute to recover liquidated damages from the firm at the rate of 1% per week of the order value subject to a maximum of 10% of the order value. It will also be open to this institute alternatively, to arrange procurement of the required materials from any other source at the risk and expense of the firm, which accepted the order but failed to execute the order according to stipulated agreed upon timeline.
13. Termination for default: Default is said to have occurred: -  
(a) If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by NIT Patna.  
(b) If the supplier fails to perform any other obligation(s) under the contract  
(c) If the bidders, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from NIT Patna (or takes longer period in spite of what NIT Patna may authorize in writing), NIT Patna may terminate the contract / purchase order in completely or in part. In addition to above, NIT Patna may at its discretion also take the following actions: NIT Patna may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate NIT Patna for any extra expenditure involved towards goods and services to complete the scope of.

**Applicable Law:**

- (a) The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such commercial dealings/processing.
- (b) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Patna, India only.
- (c) Any dispute arising out of this purchase shall be referred to the Registrar NIT Patna, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Director of the Institute. The decision of such Arbitrator shall be final and binding on both the parties.

15. The acceptance of the quotation will rest solely with the Registrar, NIT Patna, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.
16. Important:- The Director may accept or reject any or all the bids in part or in full without assigning any reason and doesn't bind himself to accept the lower bid. The institute at its discretion may change the quantity / upgrade the criteria / drop any item or thereof at any time before placing the Purchase Order.

**Registrar**



**Annexure – III (a)****TENDER FORMAT FOR PRICE**

Ref No: NITP/Proc/IT/14

Date: 16.7.2018

**PRICE BID**

S.NO	ITEM DESCRIPTION	QTY	Unit Price (RS)	Price (RS)	GST
1.	Video conferencing System (1+5) party	1			
2	Digital Boundary Microphone (approx. 4m radius,)	1			
3	PTZ Camera (3 X Optical / 4 X Digital Zoom)	1			
4	HDVC PTZ Camera (12 X Optical / 10 X Digital Zoom) FoV 56°	1			
5	HDMI Cable- 15 Mtr	1			
6	HDMI Cable- 10m	1			
7	HDMI cable- 05 Mtr	4			
8	Electrical Cabling with 3 core cables with Switches and Sockets	50m			
9	Thick Glass Rack for Codec & Each Camera	3			
10	Jack & Connectors (if any)	1			
11	Installation /Synchronization /Testing & commissioning with all Accessories	1 job			

Total Price without GST (Delivery Mode: F.O.R. Patna.)

Total price with GST (Delivery Mode: F.O.R. Patna.)

Delivery Period: 10 days.

Validity Date: Minimum 180 days from the date of opening of tender.

Place:

Date:

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Email: \_\_\_\_\_

Contact No: \_\_\_\_\_

Affix Rubber Stamp

**NATIONAL INSTITUTE OF TECHNOLOGY PATNA**  
**ASHOK RAJPATH, PATNA-800 005 (BIHAR)**

**PROFORMA FOR AUTHORITY FORM OEMs (Original Equipment Manufacturers)**  
**(To be submitted by bidder if they are authorized representative of an OEM)**

No.....

Dated: \_\_\_\_\_

To  
The Registrar  
National Institute of Technology Patna  
Patna – 800 005

Dear Sir,

Sub: NITP Tender No.....

We ..... an established and reputable  
manufacture of ..... do hereby authorize M/s  
..... (Name and address of  
Agents) to represent us, to bid negotiate and conclude the contract on our behalf with you  
against Tender No. ....

Yours faithfully

(Name)

For & on behalf of M/s .....  
(Name of Manufacturers)

Note: This letter of authority should be on the letter-head of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

### Bidder Information

**Following Performa should be filled in & duly signed by the firm & sent along with the bid.**

	Tender Ref.& Date	
1.	Name of the Firm	:
2.	Postal Address of the Office of the Firm (Attach Proof)	
3.	Details of Demand Draft for Tender Fee in Favour of Registrar, National Institute of Technology Patna, payable at Patna (Non-Refundable). (i) Demand Draft No. : (ii) Date of Issue : (iii) Issuing Bank : (iv) Amount in INR :	
4.	<b><u>Contact Information:</u></b> (a) Name of the contact person: (b) Telephone Number : (c) Mobile Number : (d) Fax Number : (e) E-Mail : (f) Website address, if any:	
5.	Kind of firm Name & address of Directors/Managing Directors/Proprietor/Partners	
6.	Your Permanent Account No.(PAN): (Copy Attached)	
7.	GST No.: (copy attached)	
8.	Bank Details : Name of the Bank : Address : Bank Account No. : Name of the Account holder: IFSC code : MICR code : Date of opening of Account: Type of Account(Saving/Current):	
9.	Are you a distributor/dealer/stockiest/executive/preferred agent of the manufacturer? If so, please submit the most recent authority letters issued by the manufacturer	
10.	Annual Turnover of the Firm FOR THE LAST 3 CONSECUTIVE FINANCIAL YEARS: 2014-15: 2015-16: 2016-17: Please attach audited copy of Balance Sheet/Turnover Certificate issued by Chartered Account).	

**Declaration:**

1. I/We \_\_\_\_\_  
\_\_\_\_\_

(Names of Partners/Proprietors or Directors) do hereby declare that the entries made in this application form are true to the best of my/our knowledge & belief.

2. I/We also undertake the responsibility to communicate all subsequent changes in the constitution or working of firm, affecting the accuracy of the facts, stated above.

3. I/We accept you all terms & conditions.

Signature of  
Partner/Proprietor/Director

(Seal of the Firm)

Place:

Date: