



**Central Purchase unit**  
**National Institute of Technology Srinagar (J&K) -190006**

Email: cpu@nitsri.ac.in

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**Document for Tender No. 40 Dated 10.01.2019**

**"Tender Notice for Invitation of bids for supply of items for  
Smart Class Rooms of the Institute.**

**-0-0-0-**

1. Sealed Bids are invited for supply of equipment having detailed Specifications as given in Annexure –I, in a 2- bid format on the terms & conditions and as per the instructions given below from para-2, from interested eligible bidders:
- 2. Techno-Commercial Bid, Containing the following documents in Envelope- A:-**
  - (a) Proof of being Original equipment manufacturer or Distributor/Marketing agent/ Authorized dealer in the shape of copy of agreement and registration under law in force.
  - (b) *The OEM (Original Equipment Manufacturer) of offered product should be ISO 9001:2015 and ISO 14001:2015 certified or certified by any other national or international regulatory body. The products quoted must also be certified.*
  - (c) PAN card & Tax registration document of the firm.
  - (d) ITR's of previous 3-years.
  - (e) *Proof of annual turnover of the firm for last three years in such trade, which shall not be less than Rs.30.00 lacs., with at-least one such contract worth not less than Rs. 10.00 lacs or two such contracts worth Rs. 15.00 Lacs to reputed Institutes/ organizations/ Departments during last three years.*
  - (f) Proof of availability of after-sale support & service centre at Srinagar.
  - (g) Bid security for Rs. 0.25 lacs in the form of CDR/BD/DD/TDR/FDR pledged to Officer In-charge, Central Purchase Unit NIT Srinagar (J&K) and tender document fee Rs.1,000/- in the form of DD, favoring of Director, NIT Srinagar. Tender without bid security /document fee shall be rejected.
  - (h) Bid form in the format given in Annexure-II duly filled.
  - (i) List of organizations/ Institutions where such equipment has been supplied & installed successfully during last 3-years.
- 3. Price Bid Containing the following in Envelope-B:-**
  - (a) Prices offered and quoted both in words & figures. Prices must be offered /quoted in the format enclosed as Annexure-III in INR only. The rates quoted should be covered with transparent tape.
  - (b) The rate quoted should be FOR NIT Srinagar (J&K).
  - (c) Bid price should be without over writing. However minor over writing should be clearly signed by the bidder. In case of any discrepancy between price quoted in figures and words, the price quoted in words will prevail. Bid price should be firm for the bid validity period.
  - (d) All duties, taxes and levies ( GST or other charges) payable, must be quoted separately. GST as applicable to Educational & Research Institutes shall be charged. Any document required for this purpose from us must be mentioned in the offer which shall be provided along-with the Supply order.
  - (e) As per SRO 129 of Government of Jammu & Kashmir, the institute is Exempted from State entry tax. The Institute will provide Entry tax exemption certificate to successful bidder with supply order. The

**4. Validity of Bids**

Bids shall remain valid at least for 120 days from the date of opening of the bids.

**5. Evaluation of Bids.**

(a) The purchaser shall first evaluate and compare the technical bids as per following criteria to determine the techno-commercially qualified bidders:

- (i) Properly filled and signed as per given formats
- (ii) Conform to terms and conditions and technical specifications.
- (iii) Are accompanied with Bid security and all other documents

(b) *In the 2<sup>nd</sup> step, the financial bids of only those bidders who qualify from the above process will be evaluated to determine the final successful bidder.*

**6. Award of contract.**

(a) Contract shall be awarded to the bidder whose bid is commercially-technically qualified and is offered at lowest reasonable evaluated price.

(b) Successful bidder shall be notified about the award of the contract through a supply order where- in terms and conditions of supply shall be incorporated.

**7. Payment & Performance Guarantee:**

100% (90% + 10%) payment shall be made after successful receipt of goods in good condition and accepted as per prescribed specifications by the nominated committee and after successful installation & commissioning. 10% will however be retained as security deposit against performance guarantee for the warranty period.

**8. Warranty and after sale service:**

(a) All items shall carry comprehensive standard warranty of 02 years from the date of installation & commissioning as well as service support after expiry of warranty.

**9. Settlement of disputes.**

Settlement of disputes if any shall be subject to the jurisdiction of Srinagar Courts only.

**11. Liquidated Damages.**

If the bidder after accepting the purchase order of goods/equipments or services, fails to deliver any or all of the goods/equipments or to perform the services with-in the specified period, a penalty of 0.50% (half percent) of the price value of the item per week or part thereof shall be imposed. The maximum penalty shall be limited to 10% of the cost. Once maximum is reached, NIT Srinagar shall proceed on its own to consider the termination of the supply order, on the risk & responsibility of the defaulting bidder.

**12. Submission of Bids.**

(a) ***The last date for submission of bids is 13.02.2019 up-to 4.00PM.***

(b) Bids should be properly sealed.

(c) The two envelopes A & B should be separately sealed and superscripted as Techno-Commercial Bid & Price Bid. On Each envelope the due date of submission, Name of equipment/item/department; tender number and name of bidder should also be written .

These two sealed envelopes should be sealed in a bigger Envelop with the address of the Tender receiving Officer; Tender Number; due date of submission, Name of equipment/item/department and name of bidder.

(d) Bids should be addressed to Officer In-charge, Central Purchase Unit NIT Srinagar (J&K)

(e) Bids not from Srinagar shall be dispatched sufficiently well in advance so as to reach the destination as per scheduled time & date. NIT Srinagar shall not be responsible for any delay caused by Post or Courier agency.

**13. Bid opening.**

(a) The Technical Bid (Envelope- A) will be opened first on 14.02.2019 at 2.30 pm in the office room of the undersigned in the administrative block of the Institute.

Price Bid (Envelope-B) of the qualified bidders as detailed above will be opened subsequently. Interested bidders can attend the Bid opening.

14. Notwithstanding above, the purchaser reserves the right to reject any or all the bids received in response to this N.I.T. or withdraw it without assigning any reasons thereof.

15. For any future information or corrigendum or addendum regarding this tender, please be in touch with our website: [www.nitsri.ac.in](http://www.nitsri.ac.in).

16. any clarification may sought on the following emails:

- Lab In-Charge: sadaamhusain@nitsri.net
- Central purchase Unit: cpu@nitsri.ac.in

Officer In-charge  
Central Purchase unit, NIT Srinagar  
Email: cpu@nitsri.ac.in

N.B.

1. Before preparing your valuable bid kindly go through the document fully and take care of all the requirements.
2. Bidders from outside Srinagar may please send their Bids well in advance so that these are received in time.

**No. NIT/CPU/18/4600**

**Dated 10.01.2019**

**Annexure-I**  
**“Name &/Specifications of Software ”**

<b>S. No.</b>	<b>Description of the item</b>	<b>Specification/</b>	<b>Quantity</b>
	portable PA NECKBAND system	Supply, Installation, Testing and Commissioning of portable PA NECKBAND system with Portable Loudspeaker with microphone-classroom PA system or voice amplifier ,wireless, clear sound, UHF MICROPHONE with rechargeable inbuilt lithium ion batteries. (make: worldtech/zebrionics/ahuja) Complete in all respects	12Nos
	CCTV surveillance/ recording system	Supply, Installation, Testing and Commissioning of CCTV surveillance/ recording system:- <ul style="list-style-type: none"> <li>• <b>CAMERA:-</b> <ul style="list-style-type: none"> <li>• 5MP Motorized Vari-Focal EXIR Bullet Camera 1Pcs. Motorized Vari-Focal EXIR Bullet Camera.</li> <li>• Camera Description: 5 Megapixel high-performance CMOS, Analog HD output, up to 5MP resolution, 2.8-12mm motorized Vari-focal lens, True Day/Night, OSD menu, DNR, Smart IR, True WDR, EXIR technology, up to 40m IR distance.</li> <li>• Effective Pixels: 2592 (H) x 1944 (V), Signal System: PAL/NTSC, Min. Illumination: 0.01 Lux @ (F1.2,AGC ON),0 Lux with IR. Lens: 2.8 to 12mm Motorized Vari-Focal Lens, Horizontal Field of View: 86.8° to to 27.7° (2.8 to 12 mm). IP67 weatherproof,.</li> <li>• Video Frame Rate: 2592 x 1944 @20fps, Function: Brightness, Sharpness, Digital Noise reduction; Mirror, Bad Pixel Correction, SMART IR. Operating Conditions: -40 °C to 60 °C (-40 °F to 140 °F), Humidity 90% or less (non-condensing). Power Supply: 12V DC 20% -A: 12V DC 20%, 24V AC 20%. Power Consumption: Max. 6W -A: Max. 9W.</li> </ul> </li> <li>• AUDIO SUPPORT:YES (for each) EXTERNAL SPEAKER(for Each) MIC(for each)</li> </ul> <p>• <b>16CH NVR WITH 6TB HARD DISK :-</b>  <b>TYPE</b>  Type of Recording Device NVR  IP Camera Support true  PTZ Camera control Support true  Housing construction Alluminium  Mounting Rack Mounted  Rack Mount configuration 4U  Capability of Recorder to Work with Other Makes of CCTV Cameras (ONVIF support) true  <b>VIDEO</b>  Number of Video Input Channels 16</p>	16 No's

	<p>Number of IP based Video input Channels for HVR 16</p> <p>Number of Video Output Channels 2</p> <p>Recording Resolution (1920 x 1080)</p> <p>Supported Compression Technique H.264,MPEG-4,MJPEG,H.264+</p> <p>Maximum Number of cameras to be viewed on a single display 16</p> <p>Total number of simultaneous local views 2</p> <p>Simultaneous Monitoring Connections for All Cameras (Users in Local Network for Client Connection) 2</p> <p>Recording Speed for all channels (fps) 25</p> <p>Minimum Through put (Mbps) 512</p> <p>Display Image Rate Real time per channel</p> <p><b>AUDIO</b></p> <p>Audio Support TRUE</p> <p>Audio Input 2</p> <p>Audio Output 2</p> <p>Audio Compression NA</p> <p>Minimum Number of Simultaneous Channels for Two-way Audio Support NA</p> <p><b>SECURITY</b></p> <p>Type of Encryption HTTPS (SSL/TSL),HTTP (SSL/TSL),WPA,WPA2,TKIP</p> <p>Multi Level User ID / Password Yes</p> <p><b>ALARM</b></p> <p>Alarm Support true</p> <p>Alarm Input 16</p> <p>Alarm Output 1</p> <p>Pre / Post Alarm Buffer true</p> <p>Pre-Alarm Recording 30 second</p> <p>Post-Alarm Recording 30 second</p> <p>Video Content Analytics (VCA) Trip-wire  Detection,Motion Detection,Crossing line,Intrusion  Detection,Face Recognition,Object counting,Tampering,Object  Removal,Number Plate Recognition</p> <p><b>NETWORK PROTOCOLS / INTERFACE / OPERATING SYSTEM</b></p> <p>Operating System Supported Windows,MAC,Linux</p> <p>Supported Network Protocols  UDP,SNMP,IGMP,DHCP,RTP,RSTP,HTTP,HTTPS,DNS,  DDNS,RTSP,RTCP,NTP,UPnP,SMTP,FTP,ICMP,QoS,TCP/IP</p> <p>Supported Interface Ethernet,HDMI,VGA,USB,RS 232</p> <p>Physical Layer of Ethernet 10/100/1000 Base TX</p> <p>Number of Ethernet Ports 2</p> <p>Number of HDMI Ports 1</p> <p>Number of VGA Ports 1</p> <p>Number of CVBS Ports 1</p> <p>Number of USB Ports 2</p> <p>Number of Serial Ports 0</p> <p>Number of PoE Ports 0</p>	
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	<p>Supported SIM Slot NA  Number of SIM Slots 0</p> <p><b>FEATURES</b></p> <p>Video Loop Support false  Video Recorder supports recording on NAS Directly false</p> <p>Remote Administration (Remote Configuration And Status Using Web Based Tool) true  System Update (Remote System Update Over Network Using Web Client) true  PC Client (PC Application Client With A Channel Recording Feature Support) true  Web Client (Viewer through HTTP system configuration) Yes  On Screen Display (In English) true  Drivers / Compatible Software (Wherever Applicable) Part Of Supply Yes  Recording schedule support Yes  Bandwidth Control Yes  Camera Notification Spot (POP up Window) on Event,E-mail  Network transmission Speed Real time display @ D1 resolution</p> <p><b>STORAGE</b></p> <p>Internal Hard Drive Interface SATA I  Number of Hard Disks (inclusive in the scope of supply) 1  Storage Capacity of each Hard Disk (TB) 6  Total Storage Capacity(TB) 6  Internal Storage Expandable upto (TB) 4  Number of Hard Disks supported 1  Redundancy Option RAID 5</p> <p><b>POWER SUPPLY</b></p> <p>Power Input 230 ± 10%, 50Hz,12 V DC  Power Consumption 60 Watt</p> <p><b>• 8PORT NETWORK MANAGED SWITCH:-</b></p> <p>Type of Switch Managed  Technology PoE  Number of 1G Copper Ports 8  Number of 10G Copper Ports 0  No. of 1 G SFP Port (Uplink) 2  No. of 10 G SFP+ Port (Uplink) 2  Multi-Gigabit Support Yes  Redundant Power supply ( from day one)Available  Console Port Available  Switching Capacity -Non Blocking (Gbps) 8  Throughput (MPPS) 0  Operating System available  ]Dedicated Stacking Port/Slot ( from day one)Supported  Stacking Bandwidth (Gbps) 2  Basic Layer-3 Protocol 0</p>	<p>4Nos</p>
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		<p>Security Feature            yes  Management Protocol    yes  QoS                            0  Operating Temperature Range (Degree C) 5C to 50C  Operating Humidity (RH)(%)    0% to 95%  IPv6 Ready from day one and dully certified    Yes  PoE Power Budget ( Watt )        59.3  on Site OEM Warranty    3</p> <p>• <b>CAT6 UTP WIRE:-</b>  Cat 6 Information outlet with faceplate (Single/Dual/Quad) conforming to ANSI/TIA/EIA-568 C.2 latest or ISO/IEC:11801 latest    Yes  Type of information outlet        U/UTP (UNshielded)  Connector type            RJ45  No. of ports (RJ 45)        One port  Dust protection for Face Plate or Information Outlet        Yes  Back Box (3x3 inches)    Yes  Termination type            With tool  No of Pairs                4</p> <p>• <b>3KVA ONLINE UPS:-</b>  Rating in KVA (KVA)    3.0 KVA  Technology            IGBT-PWM without inbuilt isolation transformer  Input Power            single phase 160V - 260V sinewave,50Hz  Output power        Single phase 230V +/-1% sinewave 50 Hz  Backup time (Minutes)    60  Minimum VAH (VAH)    5600  Warranty for UPS (Years)        2  Movable trolley for Batteries :YES  Warranty for battery        2  Degree of Protection    IP21  Cabling 5 meters for input and out put    Without  Paralleling kit for synchronising    Without  Installation and Commissioning    Yes  <b>CONSTRUCTIONAL</b>  Minimum thickness of M.S.Sheet Enclosure duly painted (mm)    1.2  Type of Battery SMF-VRLA conforming to JISC:8702(Pt.I,II&amp;III)  <b>FUNCTIONAL</b>  Maximum overshoot and Under shoot of output rated voltage  4  Voltage Regulation from no load to full load (%)&lt; / = 3%  20% Overload limit for minimum 10 minutes    Yes  Overall Efficiency (%)    &gt;/=90%  Total Harmonic Distortion(THD) (%)    Maximum 3%  50% Overload limit for minimum 1 minutes    Yes  <b>PROTECTION</b>  Protection for under voltage at battery terminal at 10.5V per 12 V battery.    Yes  Protection of Over voltage,Short Circuit &amp; over load at UPS output terminal    Yes</p>	<p>4 Nos</p> <p>4 Nos</p>
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		<p>METERING AND INDICATIONS  Digital Metering in UPS for AC Input Voltage, Output AC Voltage, Current, Frequency, Battery Voltage and Current Indicators for mains presence, Battery charging and discharging, Output Over Load, Low Battery Voltage TOTAL VDC: 72</p> <p>• <b>12V 42AH SMF BATTERIES:-</b>  Types of Lead Acid of Battery Small sized Valve Regulated Lead -Acid Batteries (SMF) conforming to JISC: 8702/1998 (Part 1,2 &amp; 3) with latest amendments  Nominal Voltage of Battery (volts) 12.0 Volt  Material of container ABS  Rated Capacity at C20 discharge (AH) 42  Warranty (Years) 2 Years  Battery Condition Dry Charged</p> <p>CONSTRUCTIONAL  Dimensions (L x W x H) (mm x mm x mm) As per relevant IS Specifications  Volume of Electrolyte (ml) 2280  Weight of Dry Battery (Kg) shall be as per relevant IS: Spec., corresponding Ah Yes.  No. of cells per Battery (No.) 6 Cells for 12 Volt battery</p> <p>• <b>4U WALL MOUNT RACK:-</b>  TYPE: CLOSED FROM SIDES AND BACK  THICKNESS: 1.0 MM  DEPTH IN MM: 450  WIDTH IN MM: 700  NUMBER OF SHELVES: 4</p>	<p>3 No's</p> <p>18 No's</p> <p>4 No's</p>
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**Annexure-II**  
**BID FORM**  
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To,  
Officer In-charge,  
Central Purchase unit,  
NIT Srinagar.

Ref: Tender No. \_\_\_\_\_ issued under No.: NITS/CPU/ 2018/.....  
Dated..... for-----  
For .....Department

Sir,

With reference to above invitation for bids, we would like to say that we have gone through your bid document thoroughly and hence offer our competitive Technical/Price Bid in sealed envelope for the supply of various goods/equipment listed in your document.

The following documents constitute our Bid:

- Technical specification/ literature attached:- Yes/No
- Valid tax clearance certificate attached:- Yes/ No
- OEM/ Authorized Dealership / certificate attached Yes/ No
- Revenue stamp affixed. Yes/ No
- Rates covered with transparent tape:- Yes/ No
- Bid document fee deposited:- Yes/ No
- Call Deposit Receipt enclosed:- Yes/ No
- Bid price in Indian Rupees:- Yes/ No
- FOR Srinagar:- Yes/No
- Bid without correction/overwriting:- Yes/ No
- Price Bid schedule in the requisite format
- List of organization where this equipment has been supplied/Installed

Kindly feel free for any enquiries and clarifications.

Yours Sincerely

From M/S.....

Place:

Telephone No.....Email:

Date.....

**Annexure-III**

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**Price Schedule**

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<b>S. No</b>	<b>Name of equipment/ Goods /item</b>	<b>Basic cost</b>	<b>GST</b>	<b>Any other tax</b>	<b>Total unit price</b>	<b>Quantity</b>	<b>Total Price</b>
1							
2							
3							
4							
5							

