



NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI - 620 015

OFFICE OF THE DIRECTOR

NOTICE INVITING QUOTATION

File No.	NITT/F.NO.076/CAPEX(OH-35)/2024-25/MOF-DO	Date:	04-11-2024
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To

(Supplier Address)

Sealed quotations are invited from reputed Authorized Dealers / manufacturers for the supply of the Items.

Name of the Item	:	4K VIDEO CONFERENCING DEVICES FOR MEETING ROOM	
Quantity Required	:	Name of the Item	Units
		4K AI PTZ Webcam	1
		4K 360-Degree Conference Camera	2
		Lecture Tracking 4K AI PTZ Camera	1
Tripod	4		
Specification	:	(As per enclosed Schedule Annexure – I)	
1.	Quotation Reference No.	:	NITT/F.NO.076/CAPEX(OH-35)/2024-25/MOF-DO
2.	Last date and Time for receipt of quotation	:	25-11-2024 before 11.00 AM 02-12-2024 before 01.00 PM (1st Extension Closing Date)
3.	Date &Time of opening of Quotation	:	25-11-2024 at 02.00 PM 02-12-2024 at 02.00 PM (1st Extension Opening Date)
4.	EMD Amount	:	Rs.9,800/-
5.	Validity (Days)	:	90 Days
6.	Address to which quotations are to be sent	:	The Director, National Institute of Technology, Tiruchirappalli – 620 015, Tamil Nadu, India
	Kind attention to	:	Ms. N. Vijayalakshmi
	Phone	:	0431 250 3002
	E-mail	:	viji@nitt.edu

1. Quotations should be submitted in the format given in Annexure – I and Annexure-II
2. The envelope should contain the following details:

<p>“QUOTATION AGAINST ENQUIRY” (4K VIDEO CONFERENCING DEVICES FOR MEETING ROOM) NITT/F.NO.076/CAPEX(OH-35)/2024-25/MOF-DO Kind attention to: Purchase Initiator: Ms. N. Vijayalakshmi, Private Secretary, Department: Director Office Last date and Time for receipt of quotation: 02-12-2024 before 01.00 PM (1st Extension Closing Date)</p>



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Earnest Money Deposit(EMD)

1. Earnest Money Deposit (EMD) is to be submitted through SBI collect link as below. The bids submitted without EMD will be treated as non-responsive and will be rejected. EMD shall bear no interest.
2. Bidder must fill the EMD returning Form (Annexure-III) and submit along with the quotation.
3. EMD will be returned to the unsuccessful Bidder(s) as per the purchase norms.
4. The EMD shall be forfeited if any Bidder withdraws the offer before finalization of the tender.
5. **UDYAM & NSIC** registered Micro & small enterprises are exempted from paying EMD amount as per Govt. norms (proof to be attached). **For availing EMD exemption, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. In respect of bid for Services, the bidder must be the Service provider of the offered services. Traders/Distributors/agents are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises.**

EMD amount	Rs.9,800/-
SBI Collect Link mode (Payment Category- NITT Tender- Earnest Money Deposit).	https://www.onlinesbi.sbi/sbicollect/icollecthome.htm?corpID=1768557
The bidder must enclose SBI collect receipt along with the quotations, failing which the bid shall be rejected without any further communication.	

Terms and Conditions:

1.	The quotation must be in the format furnished by NIT Tiruchirappalli and should be free from corrections/erasures. In case there is any unavoidable correction it should be properly attested. If not, the quotation will not be considered. Quotation written in pencil and incomplete will be rejected.
2.	You are invited to submit your most competitive quotation for the supply of goods according to the specifications and delivery terms as given.
3.	Bidders may send the quotations in sealed covers with the quotation reference number and last date for receipt of quotations duly superscribed on the cover. Mention the company Contact Number / E-mail id on the cover.
4.	Quotation will be opened on due date at 02-12-2024 at 02.00 PM (1st Extension Opening Date) at the Store and Purchase Section, NIT, Tiruchirappalli in presence of the tenderers or their representatives who may wish to be present. (Any change in the date, time and venue of the quotation opening will be informed to the bidders through telephone / E-mail)
5.	The National Institute of Technology, Tiruchirappalli reserves the right to accept or reject any quotations, and to cancel the bidding process, and reject



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	all quotations at any time prior to the award of order without assigning any specific reason thereof.
6.	Manufacturer's name and country of origin of materials offered must be clearly specified. Printed brochures, Purchase preference is only for Micro & Small enterprises (MSE's) register in UDYAM Portal or NSIC as per Ministries policy for MSE's . Proof to be attached
7.	All supplies are subject to inspection and approval before acceptance. Manufacturer / supplier warranty certificates and manufacturer / Government approved lab test certificate shall be furnished along with the supply, wherever applicable
8.	National Institute of Technology, Tiruchirappalli reserves the right to modify the quantity specified in this enquiry.
9.	Startup company exempted from prior turnover & prior experience (startup certificate registered with DIPP should be enclosed)
10.	The bidder has to submit the bids in sealed envelope, (separate for each tender). Further Bidder should not send clubbing many tenders in one envelope, in such case all the bids will be rejected.
11.	Bid Price a. The contract shall be for the full quantity Bidders must quote for entire quantity. Each bidder shall submit only one quotation in Indian Rupee only. b. Post work orders & completion certificate should be submitted, wherever applicable. c. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. d. GST, packing, forwarding and delivering other allied items at the destination shall be included in the price. All such price components may be shown in the quotation. If there is no indication regarding above charges. It will be considered as inclusive of all charges. e. If any arithmetic mistake in total / GST calculation is observed, the same shall be corrected by the purchaser with an intimation to bidder f. In case the items in the enquiry are covered by any rate contract or any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned. It should be confirmed whether you could supply at the RC rates outside rate contract g. Quotations containing conditions like "subject to prior sale" may not be considered. h. Delivery period required for supplying the material should be invariably specified in the quotation i. Bids without quoting GST (unless exempted) will be treated as invalid & disqualified. j. If there is a discrepancy between unit price and total price, the unit price will be considered. If there is any mismatch between figure and word, the amount in word shall prevail.
12.	Evaluation of quotations: Quotations will be evaluated item-wise or lump sum basis. The purchase committee will evaluate and compare the quotations determined to be substantially responsive i.e. (i) are properly signed; (ii) Conform to the terms & conditions and specifications; and (iii) price offered are competitive.
13.	Award of contract a. The National Institute of Technology, Tiruchirappalli will award the Order for supply of Goods / Services to the bidder whose quotation has been determined to be



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	<p>substantially responsive, and who has offered the lowest evaluated quotation price.</p> <p>b. The Bidder should furnish the contract agreement and performance security within 15 days from the date of receipt of the order for supply of goods / services, failing which the order will be cancelled without further notice and awarded to next eligible bidder.</p> <p>c. Notwithstanding the above, National Institute of Technology, Tiruchirappalli 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 order without assigning any specific reason thereof.</p> <p>d. National Institute of Technology, Tiruchirappalli, prior to the expiration of the quotation validity period, will notify the bidder whose bid is accepted for the award of contract. The terms of accepted offer shall be incorporated in the purchase order.</p>
14.	Warranty: 24 months Comprehensive On-site Warranty
15.	Performance Security: Security deposit should be 3% of purchase order value in case of Performance Bank Guarantee should be valid for 60 days beyond the guarantee & warranty. The successful bidder need to submit performance security (<u>As mentioned in Annexure –I</u>) of purchase order value either in the form of bank guarantee or crossed demand draft drawn on any Nationalized bank in India in favor of “The Director, NIT, Tiruchirappalli” payable at Trichy. The bank guarantee / Demand Draft will be returned to the supplier after 60 days from date of successful completion of supply, installation, and the warranty period.
16.	Payment: 100% will be paid after Installation and satisfactory working/date of completion of service if the documents are in order. The bill should be raised in favor of “The Director, National Institute of Technology, Tiruchirappalli, Tamil Nadu, India.” with institute GST No. 33AAATN5491Q1ZZ.No advance will be provided to the supplier and installer.
17.	Liquidity damages If the bidder / supplier, after accepting the Purchase Order or supply of Goods / Services, fails to deliver any or all of the Goods or to perform Services within the period(s) specified in the Order, The National Institute of Technology, Tiruchirappalli shall impose penalty without assigning any reasons to the bidder / supplier a sum equivalent to 0.50 % of the total cost as indicated in the Purchase Order (which will be deemed as agreed price) for each week or part thereof of delay until actual delivery or performance is completed and such penal charges shall be limited to a maximum of 5% of the agreed price. Once the maximum is reached The National Institute of Technology, Tiruchirappalli, may proceed on its own to consider the termination / cancellation of the Order and may inform the bidder about the cancellation of the said purchase order. unless extension is obtained in writing from the office / Department on valid ground before expiry of delivery period
18.	If the deliveries are not maintained and due to that account Procuring Entity is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier
19.	Dispute clause: Any dispute relating to the Enquiring /Tender of the indented item shall be under the Hon'ble Court having its jurisdiction over Tiruchirappalli only
20.	Startup company exempted from Prior Turnover & Prior Experience (Startup certificate registered with DIPP should be enclosed)
21.	GST as applicable



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22.	Performance Bank guarantee should be valid for 60 days beyond the guarantee & warranty and the BG submitted for EMD shall be valid for 45 days beyond bid validity period.
23.	The successful bidder should submit Security Deposit/PBG within 15 days from the date of placement of order. The EMD shall be returned only after receipt of SD. If the bidder fails to deliver the material, then the EMD/SD shall be forfeited.

ACCEPTANCE BY THE BIDDER



**NATIONAL INSTITUTE OF TECHNOLOGY
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I/We hereby certify that I/We shall abide hereby the terms and conditions and the Annexures of this limited quotation.

Signature & Seal of Vendor with Date

For any details / clarifications regarding could be obtained from Stores and Purchase Section on all working days during 10 AM to 5 PM.

For further detail related to Technical specifications kindly contact **Ms. N. Vijayalakshmi** (Purchase initiator) **Director Office, viji@nitt.edu, 0431 250 3002.**

(NB: Mention the Contact Number / E-mail on the cover. Any change in the date, time and venue of the tender opening will be informed to the bidders through telephone / E-mail)

Enclosures: 1) Specifications of the equipment	Annexure – I
2) Price Format	Annexure - II
3) EMD Return Format	Annexure – III
4) Bank Mandate Form	Annexure – IV



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Annexure- I

Specifications of the Equipment

Ref: NITT/F.NO.076/CAPEX(OH-35)/2024-25/MOF-DO

Date: 04-11-2024

1		4K AI PTZ Webcam – 1 No	
	Name of the Equipment / Goods		
	Make		
	Model		
S.No.	NIT-T Specification	Supplier Specification	
1	PTZ Sensor	1/2.8" 8MP CMOS or higher	
2	Zoom	Min 4x zoom	
3	Horizontal viewing angle	Min 70°	
4	Aperture	Min F1.9	
5	Panning angle	Minimum +/- 140°	
6	Tilting angle	Minimum + 30°/-70°	
7	Panning Speed	Min 110°/sec	
8	Stabilization	Min 2-Axis gimbal	
9	Video resolution	Min 4K@30fps & 1080@60fps	
10	Video & Audio Compression	MJPEG, H.264, YUV	
11	Video Interface	USB-C 2.0, HDMI	
12	Microphone	Min 2x Inbuilt omni-directional mics with noise reduction	
13	Camera Features	Focus System, Gain Control, Flip	
14	Tracking Functions and Modes	Gesture Control, Auto Framing, AI Presenter Tracking and Zooming, Stage, Zone, Hybrid, Voice Control	
15	Camera control Software / Web UI	Should provide by OEM	
16	Protocol Support	NDI, RTSP, RTMP, UVC, SRT	
17	Connectivity	Wi-Fi 5 and Bluetooth 5.0	
18	Mounting Compatibility	Upside-Down ¼ Universal Thread	
19	Accessories	Standard Accessories and cables	
2		4K 360-Degree Conference Camera – 2 Nos	
	Name of the Equipment / Goods		



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	Make		
	Model		
S.No.	NIT-T Specification		Supplier Specification
1	Lens	Min 2x 4K resolution fisheye lens	
2	Digital zoom	Min 5x zoom	
3	Video resolution	Min 2160p 30fps Recoding Min 2160p 30fps Streaming	
4	Video & Audio Compression	MJPEG, H.264	
5	Video signal interface	Min 1x USB-C 3.1, Min 1x HDMI 2.0	
6	Tracking Features	Auto Framing, Auto Presenter Tracking	
7	Presets	Min 4 Modes (180 Panoramic +180 Panoramic, Host+360 Panoramic, Host Only, 4 Active Participants)	
8	Microphones	Min 6x In-built Beam Foaming Microphones	
9	Microphones Sensitivity	Min -38dB+/-1dB@1KHz	
10	Microphones Pickup Range	Min 5.5 Meter Radius	
11	Noise and Echo Cancellation	Acoustic Echo Cancellation Background Noise Suppression	
12	Speaker Output	Min 10W	
13	Wireless	Wi-Fi 5GHz + 2.4GHz Bluetooth 5.0 or higher	
14	Control Buttons	Volume, Mute, Mode	
15	IR Remote Control	Yes	
16	System Memory	Min 64GB	
17	External Memory support	Minimum 128GB Support	
18	Camera control software	Yes, OEM Software	
19	Mount	¼ Thread Mount	
20	Power	PoE+ and DC In	
21	OS Compatibility	Windows 10 or higher, Mac OS 10 or higher	
22	Weight	Max 2.5 kg	
23	Security	Anti-Theft Security Lock Slot	
24	Accessories	Power adaptor, Remote Control, Standard Accessories, and cables	
3	Name of the Equipment / Goods		Lecture Tracking 4K AI PTZ Camera – 1 No
	Make		
	Model		
S.No.	NIT-T Specifications		Bidder Specifications
1	PTZ Sensor	1/2.8" 8MP CMOS or higher	



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2	PTZ Optical Zoom	Min 20x zoom	
3	PTZ Digital zoom	Min 12x zoom	
4	Horizontal viewing angle	PTZ: Min 65°	
5	Aperture	PTZ: Min F1.8 ~ F4.5	
6	Shutter Speed	Min Range 1/1 ~ 1/32,000 sec	
7	Panning angle	Minimum +/- 170°	
8	Tilting angle	Minimum + 90°/-30°	
9	Panning Speed	Min 90°/sec Manual	
10	Video resolution	Min 4K 30fps	
11	Minimum Illumination	0.5 Lux or better	
12	Protocol Support	HTTP, RTSP, RTMP, VISCA	
13	Video & Audio Compression	MJPEG, H.264, H.264, PCM	
14	Video signal interface	Ethernet IP, USB 3.0, HDMI (Simultaneous Output)	
15	Control port interface	Ethernet IP	
16	Ethernet	PoE+, Multi Stream	
17	Multi-stream Capability	Min 2x RTSP/Web View	
18	IP and USB Streaming Resolution	Min 4K 30fps	
19	Audio Input	Min 1 Line In (3.5mm)	
20	Audio Output	Ethernet IP, USB 3.0, HDMI	
21	Camera Features	Focus System, Gain Control, White Balance, 3D Noise Reduction Image Processing, Flip, Mirror	
22	Tracking Functions and Modes	AI Presenter Tracking, Stage, Zone, Hybrid	
23	Track Movement	Tacking should be continuous and stuck free movement	
24	Pre-sets	Min 100	
25	IR Remote Control	Yes	
26	Camera control Software / Web UI / Virtual Camera Streaming App	Should be provide by OEM Should be support Virtual Camera Streaming for Windows Computers for VC Application Input	
27	Web Live Video Preview	Yes	
28	Mounting Compatibility	Upside-Down ¼ Universal Thread	
29	Security	Anti-Theft Security Lock Slot	
30	Accessories	Power adaptor, PoE Adaptor, Remote Control, Standard Accessories and cables	
4	Name of the Equipment / Goods	Tripod – 4 Nos	



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	Make	
	Model	
S.No.	NIT-T Specifications	Bidder Specification
1	Mounting Head Provisions	Bubble Head Quick Head Release Adjustable Tilt Fixed Pan bar handle
2	Head Type	Ball Head
3	Head Bowl Size	Min 55mm
4	Tripod Stage	Min 3 Stages
5	Height Coverage	Minimum 1450mm
6	Load Capacity	Minimum 5 Kg
7	Folded Hight	Max 800mm
8	Tripod Weight	2-5kg
9	Sections	Max 4
10	Feet Material	Rubber
11	Material	Aluminum
12	Compatible Devices	DSLR Camera, Video Camcorder
13	Accessories	Standard Accessories.



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S.No	Other requirements related to the equipment	NITT Requirement	Supplier commitment
1.	Installation required	No	
2.	Warranty (in Months)	24 months	
3.	Comprehensive AMC required	No	
4.	Delivery Period (Weeks)	4 Weeks	
5.		Shipment terms	At NIT-T
6.		Performance Security in %	3%
7.		Payment Terms	100% Payment after satisfactory delivery/Installation
8.		EMD Amount (2 to 5)%	Rs.9,800/-

Signature & Seal of Vendor with Date

Note:

Specification of the Supplier should be given in detail, single word confirmation like Complied / No / same will be treated as non - responsive Bid and summarily rejected.

Proof for the supplier's specification must be enclosed along with the quotations. (catalogue, brochure, and product website link if any)



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Annexure- II

PRICE BID FORMAT FOR BIDDERS

Quotation reference No. & Date : NITT/F.NO.076/CAPEX(OH-35)/2024-25/MOF-DO

Bidder's Offer No. & Date :

S. No.	Description of item	Unit (Set / No)	QTY	Rate / Qty in Rs. (excluding GST)	GST in Rs.			Total Value + GST in Rs.
					SGST	CGST	IGST	
1.	4K AI PTZ Webcam	<u>Nos</u>	<u>1</u>					
2.	4K 360-Degree Conference Camera	<u>Nos</u>	<u>2</u>					
3.	Lecture Tracking 4K AI PTZ Camera	<u>Nos</u>	<u>1</u>					
4.	Tripod	<u>Nos</u>	<u>4</u>					
5.	Installation and Commissioning (extra, if any)		<u>No</u>					
6.	Packing & Forwarding charges (extra, if any)							
7.	Freight & Transit insurance charges, extra, if any							
8.	Total price							
9.	Value of Annual Maintenance Contract							
10.	Net cost to be paid by NIT-T							

Signature & Seal of Vendor

Note: The price quoted should be in Typed format only as per the above form. Hand written quotes will be rejected. No row shall be left blank, Kindly mention NA in case the item is "Not Applicable". If this format is not used or any column is left blank, then the bid will be rejected. AMC Value will not consider for arriving L1 bidder.



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(TO BE PRINTED IN LETTER PAD OF THE FIRM)

EMD Returning Form

To
The Director
National Institute of Technology,
Tiruchirappalli – 620 015

Sub: Returning EMD amount

Sir / Madam,

Our firm has participated in the tender / quotation enquiry No mentioned below and produced the EMD amount through SBI collect, details are given below.

Tender / Quotation Reference No	
EMD amount	
Transaction Number	
Transaction Date	

It is requested to return the EMD amount to our firm after completion of the purchase to the below mentioned Bank account.

Account Name	
Bank Account Number	
IFSC code	
Bank	

Signature with Seal and Date



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(TO BE PRINTED IN LETTER PAD OF THE FIRM)

Annexure – IV

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

To

The Director,
National Institute of Technology,
Tiruchirappalli – 620 015, Tamil Nadu

Sub	:	Authorization for release of payment / dues from National Institute of Technology, Tiruchirappalli through Electronic Fund Transfer/RTGS Transfer.
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1. Name of the Party / Firm / Company / Institute :
2. Address of the Party :
3. City _____ Pin Code _____
4. E-Mail _____ Mobile No: _____
5. Permanent Account Number _____
6. Particulars of Bank:

Bank Name:		Branch Name:	
PIN Code:		Branch Code:	
IFS Code:(11 digit alpha numeric code)			
Account Type	Savings	Current	Cash Credit
Account Number:			

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information I shall not hold Director, National Institute of Technology Tiruchirappalli responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____ Date: _____

Signature & Seal of the Authorized Signatory of the Party