

<p>मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान भोपाल</p> <p>Maulana Azad National Institute of Technology Bhopal</p> <p>(भारत सरकार, शिक्षा मंत्रालय के अधीन राष्ट्रीय महत्व का संस्थान)</p> <p>(An Institution of National Importance under MoE, Govt. of India)</p>			
			
<p>निविदा आमंत्रण सूचना</p> <p>NOTICE INVITING QUOTATION</p>			
<p>सामग्री / वस्तु का नाम</p> <p>Name of Goods/Items</p>	<p>Motor Driver, ESP 32 Wroom, Flex Sensor. Nano Development Kit, Soft Pressure Sensor, Thermal Camera, EMC Camera, Stablize 5 Link Manipulator, Wit Motion Sensor</p>		
Website	www.manit.ac.in	Fax No:	0755-2670562
Email Address:	info@manit.ac.in	Telephone No:	0755-4051000, 0755-4052000

मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल	
Maulana Azad National Institute of Technology Bhopal	
(भारत सरकार, शिक्षा मंत्रालय के अधीन राष्ट्रीय महत्व का संस्थान)	
(An Institution of National Importance under MoE, Govt. of India)	
No. MANIT/CSE/2025-26:04	दिनांक / Date: 16/09/2025
निविदा आमंत्रण सूचना	
NOTICE INVITING QUOTATION	
सामग्री / वस्तु का नाम Name of Goods/Items	Motor Driver, ESP 32 Wroom, Flex Sensor. Nano Development Kit, Soft Pressure Sensor, Thermal Camera, EMC Camera, Stabilize 5 Link Manipulator, Wit Motion Sensor
<p>उपरोक्त सामग्री / वस्तु की आपूर्ति के लिए निविदाएं आमंत्रित की जाती हैं। इच्छुक निर्माता/अधिकृत भागीदार/एजेंसियाँ, अपनी बोली अंकित करें। निविदा दस्तावेज़ विधिवत रूप से भरकर विभागाध्यक्ष— कंप्यूटर विज्ञान एवं अभियांत्रिकी विभाग में जमा की जा सकती है।</p> <p>सम्पूर्ण निविदा मय दस्तावेज़ प्रस्तुत करने की अंतिम तिथि 01/10/2025 अपरान्ह 12.00 बजे तक है। संस्थान निदेशक, बिना कोई कारण बताए किसी या संपूर्ण निविदा को पूर्ण या आंशिक रूप से स्वीकार या अस्वीकार करने का अधिकार सुरक्षित है।</p>	
	कुलसचिव
<p>Quotations are invited for Supply of above-mentioned Goods/Items in the Institute. Interested Manufacturers/Authorized Partner/Agencies may quote their price. The quotation duly completed be submitted to the Head of Department Computer Science & Engineering of the Institute.</p> <p>Last date of submission of complete quotation document is 01/10/2025 up to 12.00 hours. The Director of the Institute reserves the right to accept or reject any or the entire quotation in full or in part without assigning any reason whatsoever.</p>	
	Registrar

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मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल		
Maulana Azad National Institute of Technology Bhopal		
एक नजर में महत्वपूर्ण जानकारियाँ		
IMPORTANT INFORMATION AT A GLANCE		
सामग्री/वस्तु का संक्षिप्त विवरण	संख्या	टिप्पणी
Brief Description of Goods/Items	Quantity	Remarks
Motor Driver, ESP 32 Wroom, Flex Sensor. Nano Development Kit, Soft Pressure Sensor, Thermal Camera, EMC Camera, Stablize 5 Link Manipulator, Wit Motion Sensor	As per BoQ	संलग्नक-1 पर विस्तृत विवरण Detailed Specification at Annexure-I
निविदा की अनुमानित लागत Estimated cost of Quotation	Rs. 4,35,000.00	
आपूर्ति एवं स्थापना का सीन Location of Supplies & Installation	Department of Computer Science & Engineering at Institute	
निविदा दस्तावेज की उपलब्धता Availability of Quotation Document	www.manit.ac.in www.eprocure.gov.in/epublish/app	
निविदा जमा करने के अंतिम दिनांक एवं समय Last Date & Time of Submission of Quotation	01/10/2025 up to 12:00 hours	
निविदा खुलने की दिनांक एवं समय Date & Time of Opening of quotation	01/10/2025 at 15:00 hours	
निविदा वैधता की अवधि Quotation Validity period	60 days from the date of opening of the Technical Bid	
वितरण/आपूर्ति की अवधि Delivery/ Supply period	04 to 06 weeks from the date of issue of Supply Order	
गारंटी खंड Penalty Clause	0.5% of the value of the order per week	
वारंटी अवधि Warranty Period	1 year (s) from the date of successful SITC of equipment/ item	
बोली सुरक्षा/बयाना राशि Bid Security/ EMD	NIL	
निष्पादन सुरक्षा राशि Performance Security Amount	NIL	

बोलीदाता के लिये निर्देश / अनुदेश / INSTRUCTIONS TO BIDDERS		
1	Scope of Supplies & Work:	
	a	Bidders are encouraged to inspect and assess the site and its surroundings before submitting their bids, ensuring they fully understand the nature of the ground and sub-soil (to the extent practicable), the site's layout, access routes, and any accommodation requirements. In addition, bidders should gather all necessary information regarding risks, contingencies, and other factors that may impact their bids. It will be assumed that bidders have complete knowledge of the site, whether they choose to inspect it or not, and no additional charges will be permitted based on any misunderstandings or lack of information.
	B	It will be imperative on each bidder to fully acquaint himself with the site conditions and factors which would have any effect on the performance of the contract and / or the cost.
	C	The Goods/ Items shall be supplied as per the Bill of Quantity and Specifications mentioned in ANNEXURE-I . However higher specification of equipment may be considered subject to their cost economics competitiveness.
	D	Bidder should supply illustrated leaflet giving technical details of Goods/ Item and attach the same with the quotation to facilitate evaluation.
	E	Bidder should quote the price of only one best & appropriate model of Goods/Item available with them.
	F	Purchase Preference will be given to "Make in India products" as defined in Purchase Preference with Local Content (PP-LC) Policy.
	G	Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs).
	H	Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT), claiming EMD exemption and relaxation in turnover as prescribed in the certificate / Start Up scheme of DPIIT.
	I	Where ISI certification marked goods are available in the market, procurement should generally be limited to goods with those or equivalent marking only. The warranty/AMC required must be specified.
	J	After the supply of Goods/ Items & Accessories as mentioned in the ANNEXURE-I , the bidder has to execute its installation at the designated location(s). No extra cost shall be paid for this reason.
2	Delivery of Supplies & Installation:	
	a	The purchaser is interested in complete delivery of Goods/items along with Installation, Testing and Commissioning by bidder within stipulated time limit.
	B	The material shall be inspected on receipt at site and the bidder shall be responsible for any damage during the transit of Goods/Items.
3	Warranty & After Sales Services:	
	a	The bidder shall offer on-site comprehensive warranty of equipments as mentioned at IMPORTANT INFORMATION AT GLANCE sheet at the designated location & shall cover each and every part of the equipments including parts having limited life etc. The purchaser is not liable to pay any extra charges on any account during the warranty period.
	B	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.

	C	The performance security as mentioned at IMPORTANT INFORMATION AT GLANCE sheet is required in favour of Institute for the warrantee period plus sixty days extra.
4	Eligibility Criteria:	
	a	Bidder should have registered with appropriate Authority and have GST Number.
5	Price Bid	
	a	The Prices should be quoted in Indian Rupees only.
	B	Bidder shall take into account all costs including unloading at the location of purchaser, cartage etc. for giving delivery of material at site(s) before quoting the rates. In this regard no claim whatsoever shall be entertained.
	C	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices.
	D	The price quoted in the price bid shall be firm but subject to change in rate of applicable taxes if any.
	E	The Bidder should avoid the use of vague term such as “Extra as applicable”. Such offers shall be treated as non-responsive.
6	Bid Submission:	
	a	The quotation must be placed in a properly sealed envelope super-scribed “ <i>Quotation for the Supply of Equipment.</i> ” With quotation inquiry number and its due date addressed to The Director, Maulana Azad National Institute of Technology- Bhopal- 462003 and must reach the office of The HoD- Department Computer Science & Engineering, Maulana Azad National Institute of Technology, Bhopal 462003 on or before as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. The sealed Envelope should be consisting of followings:
	b	Copy of Certificate of Registration of firm.
	C	BOQ Annexure-I and Price Bid Annexure-II duly filled and signed.
7	Evaluation of Bids:	
	The Institute shall evaluate all the items together or separately depending upon the nature of items of circumstance and compare the quotations determined to be substantially responsive i.e. which	
	a	are properly signed;
	b	Confirm to the eligibility criteria of the vendor; and
	c	Confirm to the terms & conditions, and technical specifications.

NNEXURE-I			
मौलाना आज़ाद रा द्वीय प्रौद्योगिकी संस्थान, भोपाल Maulana Azad National Institute of Technology Bhopal			
सामग्री की मात्रा एवं विवरण BILL OF QUANTITY AND SPECIFICATION			
SN	Name of Product/ Items	Quantity	Remarks
1	Motor Driver (As per Annexure-1)	04	
2	ESP 32 Wroom (As per Annexure-1)	06	
3	Flex Sensor (As per Annexure-1)	04	
4	Nano Development Kit (As per Annexure-1)	02	
5	Soft Pressure Sensor (As per Annexure-1)	10	
6	Thermal Camera (As per Annexure-1)	01	
7	EMG Camera (As per Annexure-1)	02	
8	Stablize 5 Link Manipulator (As per Annexure-1)	01	
9	Wit Motion Sensor (As per Annexure-1)	06	

NB: Drawing/ Design is enclosed herewith.

ANNEXURE- II	
BID PRICE FORMAT	
To,	
The Director	

MANIT- Bhopal- 462 003							
Sub: Enquiry Document dated 00/00/2024.							
SN	Product Description with make & Model	Unit price		Qty	Qty Price	GST	Total Price
1	2	3		4	5	6	7(5+6)
1	Motor Driver			04			
2	ESP 32 Wroom			06			
3	Flex Sensor			04			
4	Nano Development Kit			02			
5	Soft Pressure Sensor			10			
6	Thermal Camera			01			
7	EMG Camera			02			
8	Stablize 5 Link Manipulator			01			
9	Wit Motion Sensor			06			
Total offered Price							
Total (In Words):							
Delivery Period required:							
The followings things are confirmed and undertaken by us that:							
a	The price quoted above are inclusive of statutory Levies & Taxes, Duties, Transportation and other charges (Insurance, Loading/ unloading, Packing & Forwarding charges, Installation etc.) at site.						
B	Taxes are subject to change/ revision.						
C	We agree with the terms and conditions specified in “Instructions to Bidders” and if selected, the execution of supplies would be made as per bill of Quantity & Specification.						
Date:		Signature of Authorized Bidder with proper rubber stamp					
		Name:					
		Designation:					
		Mobile No:					

Annexure-1

Technical Specifications

S.no	Name of Item	Technical Specification	Compliance (Yes/No)
1	Motor Driver	<ul style="list-style-type: none"> Voltage Range: 5V–46V Current: Up to 2A per channel No. of Channels: 2 	

		<ul style="list-style-type: none"> • Interface: TTL logic level • Use: Controls DC motors, stepper motors 	
2	ESP 32 Wroom	<ul style="list-style-type: none"> • Processor: Dual-core Tensilica LX6, 240 MHz • Flash: 4 MB • Wi-Fi & Bluetooth: 802.11 b/g/n, Bluetooth v4.2 • GPIO Pins: 34 • Operating Voltage: 3.3V • Use: IoT, wireless applications 	
3	Flex Sensor	<ul style="list-style-type: none"> • Resistance Range: ~10kΩ (flat) to ~30–40kΩ (fully bent) • Length: 2.2 inches • Bend Angle: Up to 180° • Use: Motion sensing in gloves, robotics 	
4	Nano Development Kit	<ul style="list-style-type: none"> • CPU: Quad-core ARM Cortex-A57 • GPU: 128-core Maxwell • RAM: 4GB LPDDR4 • Storage: microSD slot • I/O: GPIO, I2C, CSI, USB 3.0 • Use: AI, deep learning, CV 	
5	Soft Pressure Sensor	<ul style="list-style-type: none"> • Sensing Area: Varies (e.g., 0.5–1 inch) • Force Range: 100g to 10kg • Resistance Range: ~10kΩ–1MΩ (inversely proportional to pressure) • Use: Wearables, haptics, robotics 	
6	Thermal Camera	<ul style="list-style-type: none"> • Resolution: 80x60 or 160x120 (Lepton 3.5) • Frame Rate: <9 Hz (for Lepton) • Spectral Range: 8–14 μm • Interface: SPI, I2C • Use: Human detection, thermal mapping 	
7	EMG Camera	<ul style="list-style-type: none"> • Input Voltage: +3V to +5V • Signal Range: 0–Vcc • Bandwidth: ~10–500 Hz • Output: Analog envelope of EMG • Use: Muscle activity detection, prosthetics 	
8	Stablize 5 Link Manipulator	<ul style="list-style-type: none"> • DOF: 5 Degrees of Freedom • Material: Aluminum/Carbon Fiber • Actuation: Servo/DC motors with 	

		encoders <ul style="list-style-type: none"> • Payload: ~0.5–1 kg • Use: Manipulation tasks 	
9	Wit Motion Sensor	<ul style="list-style-type: none"> • IMU: 9-axis (Gyroscope + Accelerometer + Magnetometer) • Output Rate: 200 Hz • Interface: USB/UART • Precision: Gyro $\pm 2000^\circ/\text{s}$, Acc $\pm 16\text{g}$ • Use: Motion tracking, posture sensing 	