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Maulana Azad National Institute of Technology Bhopal
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(An Institution of National Importance under MoE, Govt. of India)



Lhfer fufonk iNrK
LIMITED TENDER ENQUIRY

lkexh@oLrdkue

Multi Process Control Trainer Workstation

Name of Goods/Items

Website: www.manit.ac.in
Email Address: info@manit.ac.in

Fax No: 0755-2670562
Telephone No: 0755-4051000, 0755-4052000

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Øekd S No	fooj.k/ Description	i"B Øekd Page No.
1	fufonkvke=.k l puk Notice Inviting Tenders	03
2	,du t jeegROI.k tkudkfj;k Important Information at a Glance	04
3	ckyhnkrk d fy, fun'k Instructions to Bidders	05-08
4	lyxud&Alkexh dh ek=k ,ofooj.k ANNEXURE-I-- Bill of Quantity and Specifications	09-11
5	lyxud& AA eY; ckyhdçk: i ANNEXURE-II-- Price Bid Form	12

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Maulana Azad National Institute of Technology Bhopal
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(An Institution of National Importance under MoE, Govt. of India)

No. MANIT/ECE/2025:05

fnukd@Date:13/10/2025

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NOTICE INVITING TENDERS

lkexh@oLr dk uke Multi Process Control Trainer Workstation
Name of Goods/Items

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lEi.k fufonk e; nLrkot çLrr dju dh vfre frfFk -03/11/2025- vij kUg 12-00 c trdgA ILFkku fun'kd] fcukdkbdkj.kcrk, fd l h ;k l i.k fufonk dki.k ;k vkf'kd : i l l ohdkj ;k vLohdkj djudkvf/kdkj l jf{kr gA

dy l fpo

Tenders are invited for aforesaid Goods/ Items. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website www.manit.ac.in and CPPP website www.eprocure.gov.in/epublish/app for further details. Tender Document can be downloaded and the duly completed be submitted to the Deputy Registrar (Stores & Purchase) Maulana Azad National Institute of Technology- Bhopal- 462003.

Last date of submission of complete tender document is 03/11/2025 up to 12.00 hours. The Director of the Institute reserves the right to accept or reject any or the entire tender in full or in part without assigning any reason whatsoever.

Registrar

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Maulana Azad National Institute of Technology Bhopal
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IMPORTANT INFORMATION AT A GLANCE		
fufonkØekd , ofnukd Tender No & Date	No. MANIT/ECE/2025:05	
	Date: 13/10/2025	
fufonkd kdk ; {k=@SCOPE OF TENDER		
I kexh@oLrdkIf{kIrrfooj.k	I [; k	fVli.kh
Brief Description of Goods/Items	Quantity	Remarks
Coupled Quad-Tank Process Control Trainer Workstation	01	IyXud&Ai jfoLrrfooj.k Detailed Specification at Annexure-I
fufonk dh vuekfurykxr Estimated cost of Tender	Rs. 8,00,000/-	
vkifr ,oLFkkiukdkLFkku Location of Supplies & Installation	ECE Department at Institute	
fufonknLrko t dhmiyC/krk Availability of Tender Document	www.manit.ac.in www.eprocure.gov.in/epublish/app	
fufonk tekdju d vfrefnukd ,o le ; Last Date & Time of Submission of Tender	03/11/2025 up to 12:00 hours	
fufonk [kyu dh fnukd ,o le ; Date & Time of Opening of Bids	03/11/2025 at 15:00 hours	
fufonko/krk dh vof/k Tender Validity period	90 days from the date of opening of the Technical Bid	
forj.k@vkifr dh vof/k Delivery/ Supply period	04 to 06 weeks from the date of issue of Supply Order	
okjVhvof/k Warranty Period	01 year (s) from the date of successful Installation & Commissioning of equipment/ items	
ckyhl j{k k@c ; kukj kf'k Bid Security/ EMD	As per slab mentioned in the document.	
fu"i knu l j{k k kf'k Performance Security Amount	As per slab mentioned in the document	

clvlnrk d fy;fun'k@vun'k/ INSTRUCTIONS TO BIDDERS

1	Scope of Supplies & Work:	
a	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.	
b	Bidder should supply illustrated leaflet giving technical details of Goods/ Item and attach the same with the tender to facilitate evaluation.	
c	Bidder should quote the price of only one best & appropriate model of Goods/Item available with them.	
d	Purchase Preference will be given to “Make in India products” as defined in Purchase Preference with Local Content (PP-LC) Policy. Accordingly, bidders with Local Content less than or equal to 20% will be treated as “Non Local Supplier”. The prescribed LC shall be applicable on the date of Bid opening. The bidder shall submit an undertaking along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract. Local content certificate from practicing Cost Accountant or practicing Chartered Accountant giving the percentage of local content shall be acceptable. The local content certificate shall be submitted along with each invoice raised.	
e	Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs). If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer)of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25%(selected by Buyer) percentage of total QUANTITY.	
f	Bidder may be asked to supply sample of offered product/item before supply in bulk quantities.	
g	Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only. The warranty/AMC required must be specified	
h	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 interested for complete delivery of equipments along with Installation, Testing and Commissioning within the period as mentioned at IMPORTANT INFORMATION AT GLANCE sheet.However, the bidder has an option to submit the best delivery with installation time.	
b	The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of Goods/Items.	
c	The insurance cover including insuring the goods against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery/ installation shall be obtained by bidder in his own name and not in the name of	

		purchases.
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 warranty period.
	b	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.
4	Eligibility Criteria:	
	a	Bidder should be a Company/Partnership firm/ Proprietary firm/ Agency and operational from at least 03 years (Three) as on close date of tender. Copy of registration shall be attached.
	b	The Bidder must have supplied similar Goods/ Items in last three years to Central/State government/ Quasi-Government organization/ Public listed company in India. Copies of Purchase Order (PO) shall be attached.
	c	Bidder should have minimum annual turnover (Double value of estimated cost of tender) in last year .CA certification in this regard is to be submitted.
	d	The Earnest Money Deposition Slip/proof of payment.
	e	Bidder should have GST Number & Income PAN both.
	f	Bidder should be authorized Distributor/ Dealer/ Partner of Original Equipment Manufacturer (OEM). Copy of Authorization should be submitted.
5	Earnest Money Deposit:	
	The bidder is instructed to submit EMD in the form of DD/FDR/RTGS/NEFT/BG/Bank deposition slip along with bid to prove the transfer of payment to the purchaser's Account as per EMD slab mentioned below:	
	Tender Value	EMD Rate
	Less than 2.50 Lakhs	NIL
	Between 2.50 lakhs to 25.00 Lakhs	2% of Tender Value rounded off in nearest in 100 rupees.
	a	Purchaser's Bank Account details:
		Account Name
		Bank Name
		A/c No.
		IFS Code
		Director MANIT Bhopal State Bank of India 10020150107 SBIN0001608
	b	The EMD will be returned to the unsuccessful bidders soon after placement of order and successful bidder shall get its EMD after supply of material.
	c	The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category. Manufacturers for goods and service providers for services are eligible for exemption from EMD under MSE Category. Traders are excluded from the purview of this policy.
6	Amendment of Tender Document:	
	a	At any time prior to the date submission of bids, the purchaser, may, for any reason, whether at its own initiative or in response to a clarification sought by a prospective bidder, amend bid document by issuing corrigendum. The corrigendum will be notified/ published in e-tendering website www.eprocure.gov.in/epublish/app and Institute website only.
7	Price Bid	
	a	The Prices should be quoted in Indian Rupees only.
	b	Purchaser (being a research Institution) is registered with the Department of

		Scientific & Industrial Research (DSIR) for the purpose of availing custom duty exemption in terms of GoI Notification No. 51/96-Customs dated 23 July 1996. The bidder should quote their prices considering the exemption certificate. If any certification needed by bidder, may be given to avail this benefit.
	c	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 what so ever shall be entertained.
	d	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices.
	e	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.
	f	The Bidder should avoid the use of vague term such as “Extra as applicable”. Such offers shall be treated as non-responsive.
	g	No extra payment shall be paid on account of any discrepancy in nomenclature of items. The bidder shall seek clarifications if any before submitting the tender.
8	Bid Submission:	
		The bidder is instructed to give their offline offer through two bid system (technical bid and financial bid in separate envelope) for this tender. The tender must be placed in a properly sealed envelope super-scribed “ Tender for the Supply of “Multi Process Control Trainer Workstation” with tender 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 Deputy Registrar- Stores & Purchase, Maulana Azad National Institute of Technology, Bhopal on or before as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. The sealed Envelop should be consisting of followings:
	a	Copy of Certificate of Registration of firm, GST Number and Income Tax PAN.
	b	Copy of Purchase Order (PO) received from government shall be attached.
	c	The Earnest Money Deposition Slip/Proof of payment. If any
	d	Certificate mentioning of Turnover for the last year and OEM authorization letter.
	e	BOQ Annexure-I and Price Bid Annexure-II duly filled and signed.
9	Evaluation of Bids:	
		The Institute may evaluate all the required goods/items in this tender together or independent depending upon nature of items & compatibility 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.
	d	In case, required goods/items in this tender are independent and complete in nature. Institute may evaluate independently as far as price is concerned for placing order(s).
10	Validity of Tender:	
	a	The tender shall be valid as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. Terms and financial details submitted in the bid shall be treated as firm during the validity period.
	b	In exceptional circumstances, prior to the expiry of the bid validity period, the purchaser may request bidders to extend the period of validity of their bids. The request and the responses shall be made in writing.
11	Notification of Award:	
	a	Prior to the expiry of the period of bid validity, the purchaser shall notify the successful bidder, in writing, that its bid has been accepted. The notification

		letter shall specify the sum that the purchaser will pay to the bidder in consideration of the Supply of Goods/ Items with the details of selected location.			
	b	Purchase/ Contract order shall preferably be issued in favour of bidder. Bidder may request in advance for issuance of Purchase/ Contract order in favour of OEM of product. In this case billing and payment shall be made to OEM only.			
12	Performance Security Deposit: The bidder is required to submit Performance Security in the form of DD/FDR/RTGS/NEFT/BG/Bank Deposit after installation of material along with the bill to the Institute as per slab mentioned below:				
	Order/ Contract Value		PSD Rate		PSD Period
	Less than 2.50 Lakhs		NIL		Warranty period plus two month extra
	Between 2.50 lakhs to 25.00 Lakhs		5% of TenderValue rounded off in nearest in 100 rupees.		
	a	Purchaser's Bank Account details:			
		Account Name	Bank Name	A/c No.	IFS Code
		Director MANIT Bhopal	State Bank of India	10020150107	SBIN0001608
	b	In case of breach of contract, performance security shall be forfeited and the bidder shall be blacklisted for such period as decided by the competent authority in addition to cancellation of order.			
	c	Performance Security shall be returned to the bidder without any interest, whatsoever, after completion warranty period as specified in the tender.			
13	Penalty Clause:				
	a	The bidder shall indicate the period within which the ordered quantity will be supplied along with Installation & Commissioning of Goods/ Items. The bidder shall note that in case bidder fails to do so within the period of delivery indicated by the bidder in price bid of this tender, penalty @ 0.50 % on total value of the PO per week of delay would be levied subject to maximum 20 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 20 weeks after expiry of scheduled delivery date.			
14	Terms of Payment:				
	a	The Payment shall be made within 30 days by purchaser after supply and installation of Goods/ Items.			
15	Jurisdiction:				
	a	In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal court only.			
16	Details of Contact Persons for Query if any				
	Name	Dr Suryakant Gautam		Dr R.M. Yadav	
	Designation	Assistant Professor		Superintendent	
	Tel No	9780894250		78693-01955	
	Email	suryakant@manit.ac.in		rmyadav@manit.ac.in	

महाराष्ट्र शासन, शिक्षण, कौशल व प्रौद्योगिकी विभाग
Maulana Azad National Institute of Technology Bhopal

लक्ष्य और उद्देश्य, प्रारंभिक BILL OF QUANTITY AND SPECIFICATION			
SN	Name of Product/ Items	Qty	Remarks
	Item Title: Multi Process Control Trainer Workstation Technical Specifications : 1. Programmable Logic Controller (PLC) • Quantity: 01 No. • Make/Model: Allen-Bradley MicroLogix 1400 / Siemens S7-1200 / Equivalent. • I/O Configuration: ◦ Digital Inputs: 20 (MicroLogix 1400) / 14 (S7-1200) ◦ Digital Outputs: 12 (MicroLogix 1400) / 10 (S7-1200) ◦ Analog Inputs: 4 (MicroLogix 1400) / 2 (S7-1200) ◦ Analog Outputs: 2 • Communication: Ethernet, Serial, and expansion capability. 2. Sump Tank • Quantity: 01 No. • Material: Stainless Steel (1.5 mm thick) or Polypropylene (5 mm thick) • Capacity: 30 liters or more • Dimensions: 12" (L) × 24" (W) × 16" (H) • Features: Top cover included. 3. Level Tank • Quantity: 01 No. • Material: Acrylic / Polypropylene (5 mm thick) • Dimensions: 150 mm (L) × 150 mm (W) × 600 mm (H) 4. Centrifugal Pumps • Quantity: 02 Nos. • Specifications: ½" HP, Single-phase 230 VAC supply, thermal overload protection, surface mounting. 5. Temperature Cabinet / Geyser • Quantity: 01 No. • Heater Rating: 3 kW • Dimensions: 1.25 ft (L) × 1.25 ft (W) × 1.25 ft (H) • Heating Range: 0–100°C 6. Pressure Vessel • Quantity: 01 No. • Shape: Cylindrical • Material: CRCC / SS 304 • Dimensions: Diameter – 150 mm; Length – 300 mm • Capacity: 15 kg/cm² • Connections: ½" BSP for pressure gauge, pressure transmitter, inlet, and drain.	01	

	7. Piping • Material: ½" GI, Class B / SS (optional) • Valves: 23 Nos. ½" SS ball valves. 8. Flow Meters • Quantity: 02 Nos. • Size: ½" • Type: Turbine or WFM type • Range: 0–1000 LPH • Supply: 24 VDC, 100 mA • Output: 4–20 mA (2-wire or 3-wire) • Mounting: Horizontal. 9. Level Transmitter • Quantity: 01 No. • Input Range: 0–400 / 0–500 mm • Output: 4–20 mA, 24 VDC supply • Type: 2-wire capacitance type, top-mounted 2" screwed connection. 10. Pressure Transmitter • Quantity: 01 No. • Input Range: 0–2.5 or 0–4 kg/cm² • Output: 4–20 mA, 24 VDC • Type: 2-wire piezo-resistive type, suitable for water pressure, top-mounted ½" BSP. 11. Temperature Transmitter • Quantity: 01 No. • Input: RTD • Output: 4–20 mA • Range: 0–100°C / 0–200°C • Type: 2-wire, 100 mm sensor length, 24 VDC supply. 12. Thyristorized Phase Angle Control Card • Quantity: 01 No. • Input: 4–20 mA • Output: 0–230 VAC variable, 10 A max. 13. Pneumatic Control Valves • Quantity: 02 Nos. • Size: ½" • Type: Two-way globe type, equal percentage characteristic, with diaphragm actuator and positioner (air-to-close / air-to-open). • Cv: 5 US GPM • Connections: Flanged, PCD – 80 mm, ID – 26 mm, OD – 110 mm. 14. Rotameters • Quantity: 02 Nos. • Range: 0–1000 / 0–2000 LPH • Type: Glass tube or acrylic body, ½" connections, vertical mounting. 15. Air Filter-Regulator-Lubricator Unit (AFR/FRL)		
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	• Quantity: 01 No. • Range: 0–10 kg/cm², with ¼” connections and pressure gauge. 16. E/P Converter • Quantity: 01 No. • Input: 4–20 mA • Output: 3–15 psi • Connections: ¼” NPT / BSP • Air Supply: 1.4 kg/cm² 17. Level Switch • Quantity: 01 No. • Type: Float-operated • Switching Voltage: 24 VDC, 0.5 A • Material: Polypropylene 18. Digital Panel Meters (12 Nos.) • Level Indicators: 2 Nos. (0–500 mm) • Pressure Indicators: 2 Nos. (0–2.5 kg/cm²) • Flow Indicators: 4 Nos. (0–1000 LPH) • Temperature Indicators: 2 Nos. (0–100°C) • Current Indicators: 2 Nos. (4–20 mA range). 19. Other Accessories and Requirements • Thumbwheel Switch (10-position, 24 VDC) • Signal Isolators (6 Nos., 4–20 mA ↔ 0–10 VDC) • MCB (6A & 16A) • 24 VDC Power Supply (5 A) • Electrical Control Panel (powder-coated with terminal connectors, switches, indicators) • HMI (7” color display, Omron/Wecon/Mitsubishi/Siemens/Schneider) • SCADA Software (PID modes, data logging, simulation) • VFD (Siemens/Allen Bradley/LS/Delta) • Air Compressor (20–24 L, 1–2 HP) • PC (Intel Core i3/i5, 4 GB RAM, 500 GB HDD) • IoT-Enabled HMI (Wecon PI3070ig with cloud sync and Wi-Fi). • Warranty: 1 year onsite. • Documentation: User manual, experiment manual, and service guide. • Make In India: It should have atleast 50% components of Make in India.		
Note: <i>Drawing/ Design is enclosed herewith.</i>			
We confirm with our acceptance to the technical specifications with note as given above			
Date:		BIDDER’S NAME & SIGNATURE WITH SEAL	

		ANNEXURE- II	
FORMAT FOR SUBMISSION OF BID PRICE			
To, The Director MANIT- Bhopal- 462 003			

Sub:	Tender Document No. MANIT/ECE/2025:05, Date : 13/10/2025
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SN	Product Description with make & Model	Discounted unit price	Qty	Qty Price	GST	Total Price
1	2	3	4	5	6	7(5+6)
1	Multi Process Control Trainer Workstation		01			
Total offered Price						
Total (In Words):						
Delivery Period required:						
The followings things are confirmed and undertake by us that:						
a	The price quoted above are inclusive of basic price, statutory levies and taxes, duties, Transportation, Incidental services (including 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 in compliance.					

Date:	Signature of Authorized Bidder with proper rubber stamp
	Name:
	Designation:
	Mobile No: