

मौलानाआज़ादराष्ट्रीय प्रौद्योगिकीसंस्थान, भोपाल
Maulana AzadNational Institute of Technology Bhopal
(भारत सरकार, शिक्षामंत्रालय के अधीनराष्ट्रीय महत्वका संस्थान)
(An Institution of National Importance under MoE, Govt. of India)



सीमितनिविदापूछताछ
LIMITED TENDER ENQUIRY

सामग्री / वस्तुकानाम

Name of Goods/Items

**Basic Pneumatic Training Equipment, Pneumatic
Simulation Software, PLC Training Equipment Set**

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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No. MANIT/S&P/ME/2023: 04

दिनांक / Date: 23/11/2023

निविदाआमंत्रण सूचना
NOTICE INVITING TENDERS

सामग्री / वस्तुकानाम

Name of Goods/Items.

- A. Basic Pneumatic Training Equipment,
- B. Pneumatic Simulation Software,
- C. PLC Training Equipment Set

उपरोक्त सामग्री/वस्तु के लिए निविदाएँ अमंत्रित की जाती हैं। इच्छुक निर्माता/अधिकृत भागीदार/ एंजेन्सियाँ, अधिक जानकारी के लिए संस्थान के वेबसाईट www.manit.ac.in और CPPP वेबसाईट www.eprocure.gov.in/epublish/app पर लाग-इन कर सकती/सकते हैं। निविदा दस्तावेज डाउनलोड कर विधिवत रूप से उप-कुलसचिव-भण्डार एवं क्रय, मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल- 462003 जमा किया जा सकता है।

सम्पूर्ण निविदा मय दस्तावेज प्रस्तुत करने की अंतिम तिथि 15/12/2023 अपरान्ह 12.00 बजे तक है। संस्थान निदेशक, बिना कोई कारण बताए किसी या संपूर्ण निविदा का पूर्ण या आंशिक रूप से स्वीकार या अस्वीकार करने का अधिकार सुरक्षित है।

कुलसचिव

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 15/12/2023 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

मौलानाआज़ादराष्ट्रीय प्रौद्योगिकीसंस्थान, भोपाल
Maulana Azad National Institute of Technology Bhopal

एक नजरमेंमहत्वपूर्णजानकारियाँ		
IMPORTANT INFORMATION AT A GLANCE		
निविदाक्रमांक एवं दिनांक Tender No & Date /		No. MANIT/MECH/2023: 04 Date: 23/11/2023
निविदा का कार्यक्षेत्र / SCOPE OF TENDER		
सामग्री / वस्तुकासंक्षिप्तविवरण Brief Description of Goods/Items	संख्या Quantity	टिप्पणी Remarks
1.Basic Pneumatic Training Equipment 2. Pneumatic Simulation Software 3. PLC Training Equipment Set	01 01 01	संलग्नक- Iपरविस्तृतविवरण Detailed Specification at Annexure-I
निविदा की अनुमानित लागत Estimated cost of Tender	Rs. 12,24,840.00	
आपूर्ति एवं स्थापना का स्थान Location of Supplies & Installation	Mechanical Egg. Department at Institute	
निविदादस्तावेजकीउपलब्धता Availability of Tender Document	www.manit.ac.in www.eprocure.gov.in/epublish/app	
निविदाजमाकरने के अंतिमदिनांक एवं समय Last Date & Time of Submission of Tender	15/12/2023 up to 12:00 hours	
निविदा खुलने की दिनांक एवं समय Date & Time of Opening of Bids	18/12/2023 at 15:00 hours	
निविदावैधता की अवधि Tender Validity period	60 days from the date of opening of the Technical Bid	
वितरण / आपूर्ति की अवधि Delivery/ Supply period	06 to 08 weeks from the date of issue of Supply Order	
वारंटीअवधि Warranty Period	2 year (s) from the date of successful Installation & Commissioning of equipments/ items	
बोलीसुरक्षा / बयानाराशि Bid Security/ EMD	As per slab mentioned in the document.	
निष्पादनसुरक्षाराशि Performance Security Amount	As per slab mentioned in the document	

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	No option(s) regarding price of Goods/ Items shall be entertained in the price bid. Bidder should quote the price of only one best & appropriate model of Good/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 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	OEM Authorization Letter		
5	Earnest Money Deposit:			
	The bidder is instructed to submit EMD in the form of RTGS/ NEFT/ Bank Guarantee/ 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	
	Up to 9.99 Lakhs		NIL	
	Between 10.00 lakhs to 25.00 Lakhs		2% of TenderValue rounded off in nearest in 100 rupees.	
	a	Purchaser's Bank Account details:		
		Account Name	Bank Name	Bank A/c No.
		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 Single bid system for this tender. The tender must be placed in a properly sealed envelope super-scribed “ Tender for the Supply of Goods. ” 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	Proof of submission of EMD amount
	c	Copy of Purchase Order (PO) received from government shall be attached.
	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 <i>Supply of Goods/ Items</i> 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
	Up to 9.99 Lakhs		NIL	Warranty period plus two month extra
	Between 10.00 lakhs to 25.00 Lakhs		5% of OfferValue rounded off in nearest in 100 rupees.	
	a	Purchaser's Bank Account details:		
		Account Name	Bank Name	Bank A/c No.
		Director MANIT Bhopal	State Bank of India	10020150107
	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: Rakesh kumar Singh		Name: Dr.Manish Vishwakarma
Designation: Junior Assistant		Designation: Assistant Professor
Tel No:		Tel No: 07869301952
Email:		Email: manishvishwa1808@gmail.com

ANNEXURE-I

Maulana Azad
National Institute of Technology Bhopal- 462 003
BILL OF QUANTITY

S.No	Technical Specification	Quantity	Remarks
	Basic Pneumatic Training Equipment		
1	Moving/Rolling/Mobile table with post	01	
2	Storage drawers for rolling table with key lock.	01	
3	FRL Unit/air cleaning unit with Pressure Gauge and 3/2 distribution valve	01	
4	Mounting Arrangement for FRL	01	
5	Quick Push Pull Connectors for 6mm Tube Diameter	01	
6	Junction Box with 6-8 ports	02	
7	Isolation box with 6-8 ports	01	
8	Double 3/2 NC valve, operated by a push button	01	
9	FC 3/2 NC valve, operated by Roller	01	
10	3/2 NC switch-operated double valve	01	
11	5/2 valve with 2-position selector	01	

12	3/2 NC/NO, air operated single valve	01	
13	3/2 NC convertible valve	01	
14	Air operated 5/2 single valve	01	
15	Air operated 5/2 double valve	01	
16	Double "OR" valve	01	
17	Double "AND" valve	01	
18	Single direction speed controller	01	
19	Two way Flow control valve	04	
20	Single acting cylinder (Stroke: 50 mm)	01	
21	Flow Control Valve with 6mm Tube Dia	01	
22	Double acting cylinder (Stroke: 200mm, with One Way Flow Control Valve)	02	
23	Flow Control Valve with 6mm Tube Dia, Qty: 02 per set	02	
24	PU Tube Dia 6mm - Blue Color	10-12 Meter	
25	PU Tube Dia 6mm - Red Color	10-12 Meter	
26	PU Tube Dia 6mm - Black Color	10-12 Meter	
27	Blanking Plug Dia 6	12	
28	Union Tee Dia 6mm	05	
29	Union Y Dia 6mm	05	

30	Tube Cutter	01	
	Pneumatic Simulation Software		
1	Pneumatic, Electro-pneumatic, Hydraulic, Electro-hydraulic, Electrical and Electronic technologies should all be integrated into the software's 2D and 3D modes. Auto-simulation/fluid sim/ industry 4.0/auto sim for the industrial automation applications through graphical mode.(perpetual)	01	
	PLC Training Equipment Set		
1	Air Cleaning unit with 3/2 distribution valve - 5-7 micron filtering and moisture separator with 0.3-0.5 um filtering for moistures. - It will include a 3/2 discharge valve with silencer for connection and disconnection of the rest of the circuit. - with vertical and horizontal positioning possibility.	01	
2	Distribution block - It will include 8-10 outlet distribution block, one Couch fittings and non-return system. - Direct coupling to the air cleaning unit.	01	
3	Single direction speed controller (double) - It will include two single direction speed controllers, operated manually	01	

4	Quick exhaust valve - It will include a free exhaust valve with silencer.	01	
5	Single acting cylinder - Rod normally retracted. - Stainless steel construction. Diameter: 20 mm. Stroke: 50 mm. - Rubber cushion with built-in magnetic detection and rail.	01	
6	Double acting cylinder with rubber cushion - Stainless steel construction. Diameter: 18-20 mm. Stroke: 100-105 mm. - Rubber cushion with built-in magnetic detection and rail.	01	
7	5/2 single solenoid valve - Low consumption: 0,55W. - LED display and surge absorber. - Spring and air reset. - Power-assisted system.	01	
8	5/2 double solenoid valve - Low consumption: 0,55W - LED display and surge absorber. - Spring and air reset. - Power-assisted system.	01	
9	Power supply	01	

	<ul style="list-style-type: none"> - Input voltage: 110 - 240 VAC - Output: 24 V / 2 A - Protection against short circuits. Input switch and LED display. - Supply cable included. 		
10	<p>Set of electrical inputs (Button pad with 3 push-buttons)</p> <ul style="list-style-type: none"> - 2mm terminals for use with snap connectors. - Two push-buttons and a locking push-button. - Independent light indicator. - Two push button switch contacts. 	01	
11	<p>Set of 3 relays</p> <ul style="list-style-type: none"> - It will include three relays with 24V coil and 4 switchable contacts. - Relay-active led. - 2mm terminals for use with snap connection cables. 	01	
12	<p>Indicators (pilots, buzzer)</p> <ul style="list-style-type: none"> - It will include 8 pilot lights and a buzzer. - Supplementary terminals for power distribution. - 2mm terminals for snap connection cables. 	01	
13	<p>Set of 2 timer relays</p>	01	

	<ul style="list-style-type: none"> - It will include two timer relays, one for connection and the other for disconnection. - 24V coil, with switch contact. - LED display of timer status. - Time programmable between 0.1s and 1 h. 		
14	<p>Electric counter</p> <ul style="list-style-type: none"> - It will include inputs for counting and discounting. - Power supply: 24V. - Electromechanical preselection. - Manual or electrical reset - Switch contact. - 2mm terminals for snap connection cables. 	01	
15	<p>Photoelectric detector</p> <ul style="list-style-type: none"> - It will include M18 reflection photoelectric detector. - Detection distance: 100 mm. - Status display LED. - Operating voltage: 24V 	01	
16	<p>Electrical end of stroke</p> <ul style="list-style-type: none"> - It will include Roller-driven end of stroke with switchable electric contact. 	01	

17	<p>Programmable digital vacuum pressure switch. Analog / digital outputs</p> <ul style="list-style-type: none"> - Operating voltage: 24 V - Consumption: 45 mA - Pressure range: -1 to 0,1 MPa. - Three numerical digits. - PNP Output with snap connection cables. 	01	
18	<p>20+20 m set of 4 mm blue/white flexible tube</p> <ul style="list-style-type: none"> - Polyurethane tube, exterior diameter: 4mm, two-tone colour, for connections on pneumatic circuits. 	01	
19	<p>20 m set of 12 mm blue flexible tube</p> <ul style="list-style-type: none"> - Polyurethane tube, exterior diameter: 4mm, two-tone colour, for connections on pneumatic circuits. 	01	
20	<p>Set of 4 male straight fittings</p> <ul style="list-style-type: none"> - Set of 4 one-touch fittings with male thread size $\frac{1}{2}$"x12 mm tubes. 	01	
21	<p>Set of 10 tee fittings</p> <ul style="list-style-type: none"> - Set of 10 one-touch fittings for 4 mm tubes. 	01	
22	<p>Set of 10x4 mm plastic plugs</p>	01	

	- Tool for plugging pressure outlets in 4 mm tube.		
23	Set of connection cables – - It will include 50x 2mm (diameter) snap connection cables with different colours and lengths.	01	
24	<p>Add on PLC</p> <p>3020 PLC/AC599-D/CPU 1214C (DC) Dimensions: (in mm) Width (110-115) Height (100-112) Depth (75-80) Weight (412-415gms.)</p> <p>Power dissipation - 12W</p> <p>Current available(SM and C M bus) 1500-1700 mA max. (5VDC)</p> <p>Current available(24VDC) 400 mA max. Digital input current consumption(24VDC) 4-6 mA/input Along with programming Software and Programming Cables</p>	01	

Note –1) All the three listed equipments (S. No/01,02 & 03) should be compatible to each other.

2) All items should be quoted together.

If above two conditions are not fulfilled the offer will be cancelled.

We confirm with our acceptance to the technical specification as given above.

Date:		BIDDER'S NAME & SIGNATURE WITH SEAL
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		ANNEXURE- II
FORMAT FOR SUBMISSION OF BID PRICE		
To, The Director MANIT- Bhopal- 462 003		

Sub:	Price Bid with reference to Tender Document No: _____ dated _____
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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						
2						
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: