



राष्ट्रीय प्रौद्योगिकी संस्थान हमीरपुर हमीरपुर 177005-(हि .प्र.)

NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR (H.P.)-177005

[An Institute of National Importance under Ministry of Education (शिक्षा मंत्रालय)]

### **E-TENDER NOTICE**

Sealed online e-Tender in two bid system are hereby invited by the undersigned for the supply of following items on behalf of the Director, NIT, Hamirpur from the Eligible/ Experienced/ Resourceful, manufacturer's dealer/authorized distributor etc. having experience in appropriate field and who have successfully completed works of similar type, so as to reach in the office of the undersigned as per date & time mentioned below.

Sr. No.	Name of works/item	Qty/ No.	Earnest Money In Rs.	Time Limit
1	<b>Supply &amp; installation of CUSTOMIZED AUTOMATION TRAINING SYSTEMS (Workbench)</b> (For detailed specifications please refer to SBD)	1	32000	60 days

1. Availability of bid document and mode of submission:-The bid document is available online and bid should be submitted in online mode on website <http://www.eprocure.gov.in/> and <http://www.nith.ac.in/>. Bidder would be required to register in the web-site which is free of cost. For submission of bids, the bidder is required to have Digital Signature Certificate (DSC) from one of the authorized certifying authorities (CA).

2. Key dates: (1)

1	Date of online publication	15.02.2022 at 6.00 PM
2	Document download start and end date	15.02.2022 to 07.03.2022 10.30 AM
3	Bid submission start and end date	15.02.2022 to 07.03.2022 10.30 AM
4	Physical submission of EMD, technical documents and cost of tender document etc.	On or before 05.30 PM on 07.03.2022
5	Date of opening of technical bid	08.03.2022 at 11.30 AM

- (II) Objections/representation if any against the bidders will be entertained only within three days after publication/uploading of technical bid opening summary on net and thereafter that the date of opening of financial bid of technically qualified bidders will be published /uploaded on net.

3. Tender Details:-The tender Documents shall be uploaded in 2 cover:-

Cover 1:-Shall contain scanned copies of all "Technical Documents/Eligibility information".

Cover 2:- Shall contain "BOQ/Financial Bid", where supplier will quote his offer for each item.

- (a) Submission of Original Documents: The bidders are required to submit (a) original demand draft towards the cost of bid document if any and (b) original bid security/Earnest Money deposit (EMD) and other technical documents in the Store &



Purchase section, NIT Hamirpur-177005 (HP) as specified in the key dates of Sr. no.2 on tender opening dates & schedule, failing which the bids will be declared non-responsive. EMD in the form of DD/FDR must be attached with in favour of Director, NIT, Hamirpur (H.P) -177 005. The EMD should remain valid for a period of 90 days beyond the final bid validity period. EMD of unsuccessful bidders shall be returned after the expiry of the final bid validity or before the 30th day of the award of contract. The EMD of the successful bidder shall be released after successful execution of supply order.

4. **BID OPENING DETAIL:-** The bids shall be opened as per schedule specified in the key dates of Sr. no.2 in the store & Purchase section, NIT, Hamirpur by the authorized officer. In their interest the tenderer are advised to be present along with original documents at the time of opening of tenders. If the office happens to be closed on the date of opening of the bids as specified, the bids will be opened on the next working day at the same time & venue.
5. The bids shall remain valid for acceptance for a period of not less than 90 days after the deadline date for bid submission. Other details can be seen in the bidding documents. The officer inviting tender shall not be held liable for any delays due to system failure beyond its control. Even though the system will attempt notify the bidder of any bid updates. The Employer shall not be liable for any information not received by the bidder. It is the bidders responsibility to verify the website for the latest information related to the tender.
6. The copy of enlistment order & renewals, Copy of PAN issued by Income tax Department and copy of GST Certificate must accompany in the cover-1
7. The bidder preferably must have successfully supplied similar items in recent years. The bidders shall have to produce supporting documents giving date of award, date of commencement and completion from the concerned competent authority and should be included in cover-1
8. Destination: F.O.R. destination i.e. NIT, Hamirpur (HP) and the rates must include the charges for Packing, Forwarding, Freight, etc., if any.
9. Price/Rate: The price of items may be quoted in Indian rupees.
10. GST:- All the firms may invariably mention their GST/PAN numbers on tender failing which quotations may not be considered valid. Further, this Institution does not issue any C/D Concessional form, so the GST applicable as per actual rates must be mentioned in the offer. In case GST is not mentioned, the rates shall be treated as inclusive of all taxes.
11. The bidders/firms have to supply the complete catalogue/brochure of the products to be supplied along with the Technical bid.
12. The technical bids will be evaluated on the basis of terms & conditions of the tender and details of the product to be supplied as per condition 11 of the tender notice. The committee reserves the right to reject any technical bid on the basis of technical specifications/catalogue/brochure submitted.
13. Conditional/ telegraphic tenders shall summarily be rejected.
14. For any clarifications bidders are requested to contact FI (Purchase), NIT Hamirpur at his E-mail ID i.e. fip@nith.ac.in.
15. The tender/bid shall be kept in a sealed envelope superscribed as "Tender for (Name of work and date of opening)".
16. The jurisdiction of the law of court shall be at Hamirpur (HP).

No: NIT/HMR/MED/ 2022 / 1070-1072

FI (Purchase)

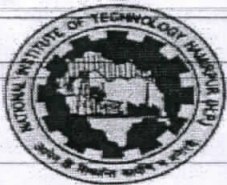
Dated: - 15-02-2022

Copy forwarded to the following for information please:-



1. The HOD, MED, NIT, Hamirpur
2. Dr. Dilshad Ahmad Khan, Assistant Professor, MED for information please.
3. ✓ The FI (CC), for getting the advertisement displayed in the Institute website for wider publicity under head: - **Supply and installation of CUSTOMIZED AUTOMATION TRAINING SYSTEMS (Workbench) for Mechanical Engineering Department of NIT Hamirpur.**

  
FI (Purchase)



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NATIONAL INSTITUTE OF TECHNOLOGY HAMIRPUR (H.P.)-177005

[An Institute of National Importance under Ministry of Education (शिक्षा मंत्रालय)]

NIT-SBD

**Subject: - Supply and installation of CUSTOMIZED AUTOMATION TRAINING SYSTEMS (Workbench) for Mechanical Engineering Department of NIT Hamirpur.**

Sealed online E-Tender in two bid system are hereby invited by the undersigned for the supply of following items on behalf of the Director, NIT, Hamirpur from the Eligible/ Experienced/ Resourceful, manufacturer's dealer/authorized distributor etc. having experience in appropriate field and who have successfully completed works of similar type, so as to reach in the office of the undersigned as per date & time mentioned in the tender notice.

Sr. No.	Name of works/item	Qty/ No.	Earnest Money In Rs.	Time Limit
1	Supply and installation of CUSTOMIZED AUTOMATION TRAINING SYSTEMS (Workbench) for Mechanical Engineering Department of NIT Hamirpur. (For detailed specifications please see below)	1	36000/-	60 days

**DETAILED SPECIFICATION FOR THE PURCHASE OF CUSTOMIZED AUTOMATION TRAINING SYSTEMS**

Sl. No	GENERAL SPECIFICATION
1.	The Training workbench should consist of the following features
	1. Use all actual industrial standard valves and components
	2. All the pneumatic fittings should be of Push-in type fittings.
	3. All One Touch Fittings should be compatible and consistent for tube size 4 mm or more of outer diameter
	4. Cylinders, Valves and Switches should be provided with suitable locking and unlock mechanism for clamping & unclamping with the Workbench
	5. Working medium: Compressed filtered air of 6 bar (working pressure) and up to 8 bar (system capacity).
	6. All Valves for Workbenches, if not mentioned, should be of: Aluminum with Anodized finish, Flow rate: 450 litres/min, Spool type, Port size: 1/8" or 1/4" (as applicable), Pressure rating: 8 bar.
	7. All Workbenches should accompany Manuals and Exercise Books (Pneumatics, Electro Pneumatics and PLC for Operation and Integration)
	8. To eliminate compatibility issues all the items will be purchased from single vendor
	MINIMUM OPERATIONAL REQUIREMENTS



	<b>Pneumatic training workbench should support following exercises</b>
1.	Operation of a single and double acting cylinder
2.	Impulse pilot operation of single acting cylinder
3.	Maintained pilot operation of single acting cylinder
4.	Operation of single acting cylinder using dual pressure (AND) valve
5.	Operation of single acting cylinder - controlled from different positions using shuttle (OR) valve
6.	Operation of double acting cylinder using quick exhaust valve
7.	Controlling the speed of double acting cylinder using METERING IN / METERING OUT flow control valve
8.	Operation of double acting cylinder using memory valve
9.	Single & Multi cycle operation of a double acting cylinder using limit switch & memory valve
10.	Single cycle automation of multiple cylinders in sequence
11.	Single cycle automation of multiple cylinders using cascading method
12.	Time delay operation of a double acting cylinder in forward/return stroke
13.	Manual intermediate positioning of a double acting cylinder in forward stroke and automatic retraction in return
14.	Control of number of cycles of a double acting cylinder using pneumatic counter
15.	Punching operation of a double acting cylinder using pneumatic timer and counter
16.	Punching and holding operation of a double acting cylinder using idle return lever valve with timer and counter
	<b>Basic Electro Pneumatic training workbench should support</b>
1.	Operating single/double acting cylinder using single solenoid valve (using direct actuation and through relay for solenoid actuation)
2.	Applying AND/OR logic using two manual controls for forward stroke of a double acting cylinder (using direct actuation and through relay for solenoid actuation)
3.	Operating of a double acting cylinder using single/double solenoid valve (use separate manual controls for forward stroke and return stroke)
4.	Operating of a double acting cylinder using single/double solenoid valve. Manual forward stroke and automatic return stroke as it reaches forward end
5.	Continuous operation of a double acting cylinder using double solenoid valve
6.	Controlling sequence of two double acting cylinders



	<b>Advanced Electro Pneumatic and PLC Training Workbench should support</b>
1.	Operation of a Single/Double acting cylinder (SAC/DAC)
2.	Multi cycle operation of a DAC
3.	Operation of two cylinders in sequence
4.	Multicycle operation of three cylinders in sequence
5.	Controlling of cylinders using Proportional Integral Derivative (PID) control technique
Sl. No	GENERAL SPECIFICATION
1.	The Training workbench should consist of the following features
	9. Use all actual industrial standard valves and components
	10. All the pneumatic fittings should be of Push-in type fittings.
	11. All One Touch Fittings should be compatible and consistent for tube size 4 mm or more of outer diameter
	12. Cylinders, Valves and Switches should be provided with suitable locking and unlock mechanism for clamping & unclamping with the Workbench
	13. Working medium: Compressed filtered air of 6 bar (working pressure) and up to 8 bar (system capacity).
	14. All Valves for Workbenches, if not mentioned, should be of: Aluminum with Anodized finish, Flow rate: 450 litres/min, Spool type, Port size: 1/8" or 1/4" (as applicable), Pressure rating: 8 bar.
	15. All Workbenches should accompany Manuals and Exercise Books (Pneumatics, Electro Pneumatics and PLC for Operation and Integration)
	16. To eliminate compatibility issues all the items will be purchased from single vendor
	MINIMUM OPERATIONAL REQUIREMENTS
	Pneumatic training workbench should support following exercises
17.	Operation of a single and double acting cylinder
18.	Impulse pilot operation of single acting cylinder
19.	Maintained pilot operation of single acting cylinder
20.	Operation of single acting cylinder using dual pressure (AND) valve
21.	Operation of single acting cylinder - controlled from different positions using shuttle (OR) valve
22.	Operation of double acting cylinder using quick exhaust valve
23.	Controlling the speed of double acting cylinder using METERING IN / METERING OUT flow control valve
24.	Operation of double acting cylinder using memory valve
25.	Single & Multi cycle operation of a double acting cylinder using limit switch & memory valve
26.	Single cycle automation of multiple cylinders in sequence
27.	Single cycle automation of multiple cylinders using cascading method
28.	Time delay operation of a double acting cylinder in forward/return stroke



29.	Manual intermediate positioning of a double acting cylinder in forward stroke and automatic retraction in return	
30.	Control of number of cycles of a double acting cylinder using pneumatic counter	
31.	Punching operation of a double acting cylinder using pneumatic timer and counter	
32.	Punching and holding operation of a double acting cylinder using idle return lever valve with timer and counter	
Basic Electro Pneumatic training workbench should support		
7.	Operating single/double acting cylinder using single solenoid valve (using direct actuation and through relay for solenoid actuation)	
8.	Applying AND/OR logic using two manual controls for forward stroke of a double acting cylinder (using direct actuation and through relay for solenoid actuation)	
9.	Operating of a double acting cylinder using single/double solenoid valve (use separate manual controls for forward stroke and return stroke)	
10.	Operating of a double acting cylinder using single/double solenoid valve. Manual forward stroke and automatic return stroke as it reaches forward end	
11.	Continuous operation of a double acting cylinder using double solenoid valve	
12.	Controlling sequence of two double acting cylinders	
Advanced Electro Pneumatic and PLC Training Workbench should support		
6.	Operation of a Single/Double acting cylinder (SAC/DAC)	
7.	Multi cycle operation of a DAC	
8.	Operation of two cylinders in sequence	
9.	Multicycle operation of three cylinders in sequence	
10.	Controlling of cylinders using Proportional Integral Derivative (PID) control technique	
Simulation Software Package		
16.	Simulation software (Pneumatics, Electropneumatic and PLC based simulation)	With 1 user, 1 Year of maintenance

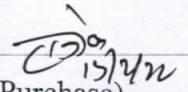


## **TERMS AND CONDITIONS:-**

1. **Validity:** Minimum validity of the quotation will be 03 months from the date of opening of the quotation/tenders.
2. **Time Limit:** - The firm/supplier has to supply and install the equipments within 60 days from the date of the award letter.
3. **Guarantee/warranty:** - The supplier has to provide equipment guarantee/warranty supplied for next 03 years from the date of successful installation of the equipment supplied. (Certificate of the same to be given by the supplier)
4. **Demonstration & Training:-** The supplier will have to demonstrate and impart training to concerned users at NIT, Hamirpur after successful supply & installation. (Certificate of the same to be given by the concerned user/indenter).
5. **EMD: EMD in the form of DD/FDR /Bank Guarantee must be attached in favour of Director, NIT, Hamirpur (H.P) -177 005.** The EMD should be remained valid for a period of 90 day beyond the final bid validity period. EMD of unsuccessful bidders shall be returned after the expiry of the final bid validity or before the 30th day of the award of contract. The EMD of the successful bidder shall be released after expiry of warranty period. EMD exemption is permissible as per Govt. rules.
6. **Make in India preference:-** NIT Hamirpur shall compare all substantially responsive bids to determine the lowest evaluated bid. The Institute is following and abide with the revised Public Procurement (Preference to Make in India), Order No. P- 45021/2/2017 – PP (BE-II) dated 16.09.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India & subsequent instructions of Ministry. Accordingly, preference will be given the make in India products while evaluating the bids. However, it is sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India along with respective documentary evidence in the technical bid itself.
7. **Technical Evaluation:-** Technical evaluation of the participating firms will be done strictly on the basis of catalogues/brochures/literature/technical details of the product to be supplied along with relevant experience & fully complying all the terms & conditions of the SBD & tender notice. **It is mandatorily to physically submit the technical literature/catalogue of the product to be supplied along with make & model no. failing which the technical bid of the participating bidder will be straightforward rejected.** NIT Hamirpur also reserves the right to seek clarification from any of the participating firm during technical evaluation. The participating bidder has to submit undertaking that they fully complies to our above-mentioned technical specifications.
8. **Destination:** F.O.R. destination i.e. NIT, Hamirpur (HP) and the rates must be quoted inclusive of all taxes and charges.
9. **Penalty:** In case the firm/vendor fails to supply the equipments within the stipulated period penalty without assigning any reasons @ 1/2% (half percent) of the total value of the item covered in order as penalty per day subject to a maximum of 5% (five percent) will be imposed unless extension is obtained in writing from the office on valid ground before expiry of delivery period
10. **Price/Rate:** The price of equipment/items may be quoted as per BOQ clearly mentioning the Basic rate & GST in the specific columns of BOQ in Indian rupees. **Tender will be awarded to the participating bidder who will be lowest in terms of total of all items**



11. **GST:** - All the firms may invariably mention their GST/PAN numbers on quotation/tender failing which quotations may not be considered valid. Further, this Institution does not issue any C/D Concessional form, so the GST applicable as per actual rates must be mentioned in the offer. In case GST is not mentioned, the rates shall be treated as inclusive of all taxes.
12. **NIT/NIQ Opening:** Representative of the firm may be present at the time of opening of the Quotations, if it wishes.
13. **Payment:** 100% payment shall be made immediately after receipt of material in good condition and successful installation of the same. (Certificate of the same to be given by the indenter/inspection committee NIT, Hamirpur)
14. **Right of Acceptance/Rejection:** Right of acceptance and rejection of any tender/quotation in part or full without assigning any reason are reserved with the institution authorities. The number of items to be purchased could be increased or decreased depending on the requirement of end user.
15. In case of any dispute the jurisdiction of Hamirpur (HP) Courts shall apply.

  
FI (Purchase)



### **Annexure I - Bidder's Information**

(Bidder should duly fill and send with technical documents via post/courier)

1	Name of the Bidder	
2	Address of the Bidder	
3	PAN No.	
4	GSTIN No.	
5	E-mail ID	
6	Contact Person's Name & Designation	
7	Mobile No.	
8	Email ID	



### Annexure II -Questionnaire

(Bidder should duly fill and send with technical documents via post/courier)

Sr.No.	Questions	Response
1	Whether all the terms and conditions of the NIT document have been complied. <b>Compliance (Yes/No)</b>	
2	Whether all the items specified in the technical specification has been compiled and have been quoted in the bidding engine. <b>Compliance (Yes/No)</b>	
3	Confirm that you have read all the instructions carefully and have complied with the instructions accordingly. <b>Compliance (Yes/No)</b>	
4	In case bidder does not manufacture goods offers to supply have submitted Manufacturer's Authorisation letter. <b>Compliance(Yes/No)</b>	
5	Mention Delivery period	
6	Mention Warranty of the material	
7	Mention HSN/SAC code of the material	
8	In case of import supplies whether you have mentioned nearest internationalport of shipment in the technical bid (if not applicable please mention 'NIL').	

Signature and Seal of the Manufacturer / Bidder

Place: \_\_\_\_\_

Date: \_\_\_\_\_



### ANNEXURE III – DECLARATION OF LOCAL CONTENT

(To be given on company letter head - For tender value below Rs.10 crores)  
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 crores)  
(Bidder should duly fill and send with technical documents via post/courier)

Date: \_\_\_\_\_

To,

The Faculty Incharge Purchase,  
National Institute of Technology,  
Hamirpur-177005 (HP)

Sub: Declaration of Local content

Tender Reference No: \_\_\_\_\_

Name of Tender: - \_\_\_\_\_

1. Country of Origin of Goods being offered: \_\_\_\_\_
2. We hereby declare that items offered has \_\_\_\_\_ % local content.
3. Details of Location at which local value addition is made \_\_\_\_\_

"Local Content" means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

The bidders cannot claim services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc as local value addition.

*"\*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law."*

Yours faithfully,  
(Signature of the Bidder, with Official Seal)