

*Maulana Azad*  
**National Institute of Technology Bhopal- 462 003**

(An Institution of National Importance under MoE, Govt. of India)



**LIMITED TENDER ENQUIRY**  
**FOR**  
***SUPPLY OF CHEMICAL VAPOR DEPOSITION EQUIPMENT PARTS***  
**IN**  
***DEPARTMENT OF CHEMISTRY, MANIT BHOPAL***

Website: [www.manit.ac.in](http://www.manit.ac.in)  
Email Address: [info@manit.ac.in](mailto:info@manit.ac.in)

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

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No. MANIT/ Chemistry/2021:

Date:01.02.2021

**NOTICE INVITING TENDERS**

Sub: *Supply of Goods/Items in “Chemical Vapor Deposition Equipment Parts”*

Tenders are invited for *Supply Goods/Items in “Chemical Vapor Deposition Equipment Parts”*. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website [www.manit.ac.in](http://www.manit.ac.in) and CPPP website [www.eprocure.gov.in/epublish/app](http://www.eprocure.gov.in/epublish/app) for further details. Tender Document can be downloaded and the duly completed be submitted to the **Assistant Registrar, Stores & Purchase, Maulana Azad National Institute of Technology- Bhopal- 462 003**.

Last date of receipt of complete tender document is 22/02/2021 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.

**HOD (Chemistry)**

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<b>IMPORTANT INFORMATION AT A GLANCE</b>		
Tender No & Date	No. MANIT/Chemistry/2021:	
	Date: 01/02/2021	
SCOPE OF TENDER		
Brief Description of Goods/Items	Quantity	Remarks
Goods/ Items: <b><i>Chemical Vapor Deposition Equipment Parts</i></b>	01 No	Detailed Specification at Annexure-I
Estimated cost of Tender	Rs. 3,20,000	
Location of Supplies & Installation	Department of Chemistry at Institute	

TENDER DOCUMENT	
Tender Document can be downloaded free of cost from Institute website <a href="http://www.manit.ac.in">www.manit.ac.in</a> and CPPP website <a href="http://www.eprocure.gov.in/epublish/app">www.eprocure.gov.in/epublish/app</a>	
<b>Last Date &amp; Time of Submission of Tender</b>	<b>22/02/2021 up to 12:00 hours</b>
<b>Date &amp; Time of Opening of Bids</b>	<b>22/02/2021 at 15:00 hours</b>
<b>Expected Delivery Period</b>	<b>Four weeks from issuance of order</b>
Details of Contact Persons for Query if any	

**Name: Manoj Shrivastava**  
**Designation: Superintendent**  
Tel No:7869301957  
Email: manojvastav@yahoo.com

**Name: Dr Sukanti Behera**  
**Designation: Assistant Professor**  
Tel No: +91-755-267-1661 (Off.) +91-9483709861 (Mob.)  
Email: [sukantib@manit.ac.in](mailto:sukantib@manit.ac.in) ,  
sukantib.manit@gmail.com

<b>INSTRUCTIONS TO BIDDERS</b>		
<b>1</b>	<b>Scope of Supplies &amp; Work:</b>	
a	The Goods/ Items shall be supplied as per the Bill of Quantity and Specifications mentioned in <b>ANNEXURE-I</b> . 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	Bidder should quote preferably other than made in China items as mentioned in the Bill of Quantity due to current relation between India & China. Certificate of origin shall also be submitted along with the bid.	
e	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	
f	After the supply of Goods/ Items & Accessories as mentioned in the <b>ANNEXURE-I</b> , the bidder has to execute its installation at the designated location(s).No extra cost shall be paid for this reason.	
<b>2</b>	<b>Delivery of Supplies &amp; Installation:</b>	
a	The purchaser interested for complete delivery of Goods/items along with Installation by bidder within stipulated time limit.	
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.	
<b>3</b>	<b>Warranty &amp; After Sales Services:</b>	
a	The bidder shall offer on-site comprehensive warranty of Good/Items for 01 (one) year from the date of successful commissioning of goods at the designated location & shall cover each and every part of the goods 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.	
c	The performance Bank Guarantee 10% of the basic value is required for the warrantee period.	
<b>4</b>	<b>Eligibility Criteria:</b>	
a	Bidder should have registered with appropriate Authority.	
b	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.	
c	Bidder should have GST Number & Income PAN both.	
d	OEM Authorization Letter	
<b>5</b>	<b>Amendment of Tender Document:</b>	

	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.
6	<b>Price Bid</b>	
	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	Government of India, Ministry of Finance (Department of Revenue) Notification No: 47/2017 integrated Tax dated 14/11/2017, the NITs are exempted from GST in excess of the amount calculated at the rate of 5 per cent under the following categories: <ul style="list-style-type: none"> <li>(a) Scientific and technical Instruments, Apparatus, Equipment (including Computers);</li> <li>(b) Accessories, Parts, Consumables and live animals ( experimental purpose);</li> <li>(c) Computer Software, Compact Disc-Read only Memory (CD-ROM), recorded magnetic tapes, Microfilms, Microfiches;</li> <li>(d) Prototypes, the aggregate value of prototypes received by an institution does not exceed fifty thousand rupees in financial years.</li> </ul> <p>The bidder should quote their prices considering the exemption. If any certification needed by bidder, may be given to avail this benefit.</p>
	d	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.
	e	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices.
	f	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.
	g	The Bidder should avoid the use of vague term such as “Extra as applicable”. Such offers shall be treated as non-responsive.
	h	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.
	i	The offered system should have been supplied to at-least any one of the reputed government institutes like – IIT’s, NIT’s, Universities, IISER’s or IISc, Proof of such supplies/installation along with the names of the users and their contact number should be submitted. Enclose order copies for references. Report of users shall be collected before procurement.

	j	All essential and recommended spares should be informed and should be quoted. Parts should be available for Next 10 Years.
7	<b>Bid Submission:</b>	
		The tender must be placed in a properly sealed envelope super-scribed " <b>Tender for the Supply of Goods.</b> " 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 <b>the Assistant Registrar- Stores &amp; Purchase, Maulana Azad National Institute of Technology, Bhopal</b> 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	Certificate mentioning of Turnover for the last year and OEM authorization letter.
	c	<b>BOQ Annexure-I and Price Bid Annexure-II</b> duly filled and signed.
8	<b>Evaluation of Bids:</b>	
		The Institute shall evaluate all the items together or separately depending upon 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.
	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).
9	<b>Validity of Tender:</b>	
	a	The tender shall be valid for a period of 60 days from the date of opening of the bid of tender. Terms and financial details submitted in the bid shall be treated as firm during the 60 days 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.
10	<b>Notification of Award:</b>	
	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 <b>Supply of Goods/ Items</b> with the details of selected location.
11	<b>Penalty Clause:</b>	
	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 bid of this tender, penalty @ 01% of value of the order per week of delay would be levied subject to maximum 10 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 10 weeks after expiry of scheduled delivery date.
12	<b>Terms of Payment:</b>	
	a	The Payment shall be made within 30 days by purchaser after supply and installation of Goods/ Items.



	b	The payment of AMC shall be staggered over the period of AMC and be made at the end of each Quarter.
13	<b>Jurisdiction:</b>	
	a	In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal court only.

We confirm with our acceptance to the instructions (S. No-1 to 13 above) as given above.		
Date:		BIDDER'S NAME & SIGNATURE WITH SEAL
<i>These duly signed "Instructions to the Bidders" as under shall be attached with bid of the tender as a mark of acceptance of bidder and any tender not confirming the instructions as under is liable to be rejected.</i>		

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**BILL OF QUANTITY**

Technical Specification of “*Chemical Vapor Deposition Equipment Parts*”

We need a “*Chemical Vapor Deposition Equipment Parts*. The detailed technical specification of the above-mentioned equipment is given below:

S. No	Technical Specification	Quantity	Remarks
1	<p><b><u>Mass flow controller – Non-Corrosive Gases</u></b> (e.g. Air, Ar, N<sub>2</sub>O, H<sub>2</sub>, etc.)</p> <p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>▪ Range 0 sccm - 500 sccm</li> <li>▪ Resolution: ≤ 0.1 sccm, Accuracy: ±1%</li> <li>Response time: ≤100 ms</li> <li>▪ Upstream Pressure: &lt;145 psig</li> <li>▪ Downstream Pressure: 1-5bar</li> <li>▪ Operating Temperature: -10° to 50° C</li> <li>▪ Output Signal (<b>Digital</b>): Mass Flow, Volumetric Flow, Pressure &amp; Temperature</li> <li>▪ Input/Output Signal Analog: Mass Flow Monochrome Display, 0-10V output of mass flow,</li> <li>▪ Compatible power cable</li> <li>▪ Provision for serial RS-232 port with communication cable.</li> <li>▪ MFC offered should be pre-calibrated for Multiple gases.</li> <li>▪ NI-LAB view drive</li> </ul>	1 No.	
2	<p><b><u>Mass flow controller – Corrosive gas</u></b> (e.g. NH<sub>3</sub>, H<sub>2</sub>S, SO<sub>2</sub>, etc.)</p> <ul style="list-style-type: none"> <li>▪ Range 0 sccm - 100 sccm</li> <li>▪ Resolution: ≤ 0.1 sccm, Accuracy: ±1%</li> <li>Response time: ≤100 ms</li> <li>▪ Upstream Pressure: &lt;145 psig</li> <li>▪ Downstream Pressure: 1-5bar</li> <li>▪ Operating Temperature: -10° to 50° C</li> </ul>	1 No.	

	<ul style="list-style-type: none"> <li>▪ Output Signal (<b>Digital</b>): Mass Flow, Volumetric Flow, Pressure &amp; Temperature</li> <li>▪ Input/Output Signal Analog: Mass Flow Monochrome Display, 0-10V output of mass flow,</li> <li>▪ Compatible power cable</li> <li>▪ Provision for serial RS-232 port with communication cable.</li> <li>▪ MFC offered should be pre-calibrated for Multiple gases.</li> <li>▪ NI-LAB view drive</li> </ul>		
3	<p><b>*Gas regulators</b> Dual Stage regulator SS Material, Hydrogen gas &amp; Nitrogen/Oxygen gas Inlet connection (RHT for Nitrogen/Oxygen gas &amp; LHT for Hydrogen gas) <b><u>Gas cylinders (High purity - 99.99%)</u></b> Nitrogen Reduced gas - Hydrogen gas</p> <p>*Vendor has to provide Helium leak proof certificate or perform during installation time.</p> <p>*Vendor has to provide all certificates of test &amp; calibration of gases, materials used in regulators fabrication.</p>	2 No. (one for each gas)	
4	<p><b><u>Vacuum pump &amp; accessory</u></b> The Rotary vacuum pump should reach up to 10<sup>-3</sup> mbar with Pirani gauge should be provided for monitoring vacuum, 250 lits/min pumping speed, air cooling, KF-25 valve vacuum connection. The system should be assembled in compact frame with castor wheels with brake for easy movement.</p>	1 No.	
5	<b><u>High temperature Valves</u></b>	2 No.	

NB: Drawing/ Design is enclosed herewith.

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

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

**Sub:** Price Bid with reference to Tender Document No: \_\_\_\_\_ dated \_\_\_\_\_

SN	Product Description with make & Model	Discounted unit price	Qty	Qty Price	GST	Total Price
1	2	3	4	5	6	7(5+6)
<b>Total offered Price</b>						
<b>Total ( In Words)</b>						

<b>The followings things are confirmed and undertake by us that:</b>	
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	Offer price shall be valid for a period of 60 days from the date of opening of bid of this tender.
d	We will be agreed to offer services for on-site comprehensive warranty on the Goods/ Items supplied through this tender for one (01) year.
e	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: