

*Maulana Azad*

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

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



**E-TENDER DOCUMENT**

FOR

*SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF  
FERROELECTRIC, PIEZOELECTRIC, PYROELECTRIC CHARACTERIZATION  
TEST SYSTEM*

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

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

No. MANIT/Phy /2021/ 4116

Date: 17/09/2021

**NOTICE INVITING e-TENDER**

**Sub: Supply, Installation, Testing & Commissioning of Ferroelectric, Piezoelectric, Pyroelectric Characterization Test System.**

Maulana Azad National Institute of Technology (MANIT) is one of the leading institutions of national importance in the area of technical education, established with the objective of developing a “Centre of Excellence” in the central region. Its aim at becoming a multi-disciplinary Centre for technical education by strengthening both teaching and research activities besides contributing to the needs of rural community, society and industry at large.

Institute is fully funded by Ministry of Education, Government of India and is governed as per provisions made under the National Institute of Technology, Science Education and Research Act 2007. (NITSER Act 2007).

E-Tenders in (two bid system) are invited for Supply, Installation, Testing & Commissioning of Ferroelectric, Piezoelectric, Pyroelectric Characterization Test System. Interested Manufacturers/Authorized Partner/Agencies may log on Institute website [www.manit.ac.in](http://www.manit.ac.in) for further details. Tender Document can only be downloaded after registration of bidder on the website <https://eprocure.gov.in/eprocure/app>.

Last date of receipt of complete tender document is **08/10/2021 up to 17.00** 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**

<b>IMPORTANT INFORMATION AT A GLANCE</b>	
Scope of Tender	Supply, Installation, Testing and Commissioning of Ferroelectric, Piezoelectric, Pyroelectric Characterization Test System
Access of Tender Document	Tender document can be obtained free of cost from Institute website or CPPP website: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> .
Cost of Tender	Rs. 6250000.00
Date & Time of Pre-bid Meeting	Technical & Commercial queries may be submitted through email only on or before - 28/09/2021 at 16.00 hours to concerned person (s) due to COVID 19 pandemic situation.
Earnest Money Deposit (EMD)	Rs. 1,00,000.00 ( One Lakh only) by way of RTGS/NEFT or bank deposition only
Last Date & Time of Submission of Tender	08/10/2021 up to 17:00 hours
Date & Time of Opening of Technical Bids	11/10/2021 at 12:00 hours
Date & Time of Opening of Price Bids	Shall be informed after evaluation of Technical bid through website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>
Tender Validity period	90 days from the date of opening of the Technical Bid
Delivery/ Supply period	90 days from the date of issue of Supply Order
Warranty Period	01 Year from the date of successful Installation & Commissioning of equipments.
Performance Security	10% of order value.
<b>Details of Contact Persons for Technical Query</b>	
Name: Dr. Rajnish Kurchania Designation: Professor Department: Physics Contact No: 0755-4051595 Email: rkurchania@gmail.com	Name: Dr. MM Malik Designation : Professor Deptt: Physics Contact No: 0755- 4051590 Email: manzar.malik@gmail.com
Details of Contact Person for Commercial Query	Shri Manmohan Rajak Superintendent 0755-4051052 manmohanr.manit@nic.in

CHAPTER-I	
INSTRUCTIONS TO BIDDERS	
1	<p><b>Location of Supply &amp; Installation:</b></p> <p>a MANIT- Bhopal &amp; its premises.</p> <p>b Bidders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (So far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A bidder shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed.</p>
2	<p><b>Scope of Supplies &amp; Work:</b></p> <p>a The equipments &amp; accessories shall be supplied as per the Bill of Quantity (BoQ) ANNEXURE-3 and Technical Specifications mentioned in ANNEXURE-4.</p> <p>b The specifications of the equipments as mentioned in the ANNEXURE-4 are the requirements of tender, however higher specifications of equipments may be considered subject to their cost economics competitiveness in the financial terms for the particular location.</p> <p>c After the supply of equipments &amp; accessories as mentioned in the ANNEXURE-3, the bidder has to execute its installation at the designated location(s) Bidders are advised to survey the site before quoting price.</p> <p>d Manufacturer shall provide comprehensive on job training to Faculty and Technicians of Institute for operation of instrument as mutually agreed upon. No extra cost shall be paid for such trainings including cost of material etc.</p>
3	<p><b>Delivery of Supplies &amp; Installation:</b></p> <p>a The purchaser interested for complete delivery of equipments along with Installation, Testing, Commissioning and Training by bidder as mentioned at IMPORTANT INFORMATION AT GLANCE sheet.</p> <p>b The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of equipments.</p> <p>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. The purchaser will as soon as possible but not late than 45 days (forty five) from the date of arrival of goods at destination shall notify the bidder of any loss or damage to the goods.</p>
4	<p><b>Warranty &amp; After Sales Services:</b></p> <p>a The bidder shall offer on-site comprehensive warranty of equipments as mentioned at IMPORTANT INFORMATION AT GLANCE sheet at the designated location &amp; 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.</p> <p>b The bidder shall pay to the purchaser such compensations that may arise by reasons of the warranty there in contained but not attended by the bidder.</p> <p>c Any part or parts fail or proved defective within the on-site warranty period</p>

		specified above, owing to defect in design, material or workmanship, the bidder shall have to replace them at the place of installation without asking for any charges.								
	d	During the warranty period, expert(s) shall be deputed at site by the bidder within seven working days from the date of request from purchaser, to rectify and fixing the defects of equipments at the location where equipments installed. The cost of deputation of expert(s) and any other associated expenditure shall be borne by the bidder.								
	e	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.								
	f	The bidder should ensure to extend service & spare support at least for five years after the specified warranty period at separate commercial terms mutually agreed upon.								
5	<b>Tender &amp; its Clarification:</b>									
	a	The tender document can only be downloaded free of cost after registration of bidder on website: <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> between start date and end date of tender.								
	b	A prospective bidder requiring clarification on the tender document may notify to the concerned HOD/ Sectional head in writing, well before the prescribed date for clarification and a response will be sent in writing to the clarifications sought prior to the date of opening of the tenders.								
6	<b>Amendment &amp; Corrigendum:</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.								
	b	The corrigendum will be notified/ published in e-tendering website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> & Institute website only. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on this e-tendering portal.								
	c	In order to afford prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the purchaser may, at its discretion, extend the last date for the receipt of bids if required.								
7	<b>Earnest Money Deposit:</b>									
	a	The EMD of Rs.1,00,000.00 ( One Lakh Only) shall be remitted through RTGS/NEFT/ Bank deposition into Institute bank account as under:								
		<table border="1"> <thead> <tr> <th>Account Name</th> <th>Bank Name</th> <th>Bank A/c No.</th> <th>Bank IFS Code</th> </tr> </thead> <tbody> <tr> <td>Director MANIT Bhopal</td> <td>State Bank of India</td> <td>10020150107</td> <td>SBIN0001608</td> </tr> </tbody> </table>	Account Name	Bank Name	Bank A/c No.	Bank IFS Code	Director MANIT Bhopal	State Bank of India	10020150107	SBIN0001608
Account Name	Bank Name	Bank A/c No.	Bank IFS Code							
Director MANIT Bhopal	State Bank of India	10020150107	SBIN0001608							
		The bidder is instructed to submit the RTGS/ NEFT/ Bank deposition slip in along with Technical Bid to prove the transfer of payment to the purchaser's Account. The offers without EMD from the bidders shall be rejected.								
	b	The Purchaser shall not be liable for payment of any interest on EMD.								
	c	Any request by the bidders to consider their EMD already furnished by them to any of the other office of the purchaser, for any other contract/ tender will not be considered as EMD for this tender.								
	d	The EMD will be returned to the unsuccessful bidders soon after the orders are placed on the successful bidder.								
	e	The EMD will be returned to the successful bidder soon after supply of material at Institute.								
		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.
8	<b>Performance Security Deposit:</b>	
	a	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.
	b	Performance Security shall be returned to the bidder without any interest, whatsoever, after completion warranty period as specified in the tender.
9	<b>Submission of Tender :</b>	
	a	The copies of the bid document shall be signed by owner or an authorized person with rubber stamp.
	b	The person signing the tender form or any other documents on behalf of the bidder shall be deemed to warrant that he has authority to bind the bidder. If it subsequently comes to light that the person so signed had no authority to do so, the purchaser may without prejudice to any other civil & criminal remedies cancel the tender and hold the bidder liable for all costs, charges and damages.
	c	The bidder is expected to examine all Instructions, Forms, Terms & Conditions and Specifications in the tender document and to furnish with its bid all documents or information as required in tender document through e-tendering website i.e. <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> . No documents shall be submitted in hard copy (s).
	d	The bidder is instructed to give their online offer through two bid system for this tender. i.e. Technical Bid and Price Bid.
	e	The Technical bid cover shall include/ contain illustrated leaflet giving technical details & technical specifications of offered equipment with make & model and also the commercial documents as mentioned in tender document for the supplies to be made and the services to be rendered EXCLUDING ANY PRICE DETAILS THEREOF.
	f	The Price bid cover shall contain only prices of the equipments offered for supply and the charges for the services to be rendered.
	g	Tenders received in open covers/ letters/ fax/ email will not be considered.
	h	Complete & concise bids (Technical & Price) must be uploaded on the website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> within the stipulated time frame of the tender.
	i	The Institute may, at its discretion, extend the deadline for the submission of bids by amending the tender documents, in which case all rights and obligations of the Institute and bidders previously subject to the deadline shall thereafter be subject to the deadline as extended. The prospective bidders are advised to remain in touch with website for any update in respect of their tender.
10	<b>Technical Bid Submission:</b>	
	Bidder should submit following documents sequentially duly signed along with technical bid:	
	a	<b>ANNEXURE-1, 2, 3, 4 and 6</b> duly filled & signed.
	b	Copy of other documents as mentioned in Chapter-II “ <b>ELIGIBILITY &amp; QUALIFICATION CRITERIA</b> ”
11	<b>Price Bid Submission:</b>	
	a	The Prices should be quoted in the <b>ANNEXURE-5</b> preferably in Indian Rupees. In case of foreign bidder, prices shall be quoted in USD only. Indian

		Bidder shall quote the price considering FOR Institute Bhopal and foreign bidder shall quote the price considering Delivered Duty Paid (DDP as defined in the current edition of INCOTERMS) at Institute, Bhopal. Partial quote are liable to be rejected. Institute will provide necessary documents upon request of bidder in advance.
	b	Bidder should quote the price of only one best & appropriate model of equipment available with them. Multiple model quoted bid is liable to reject.
	c	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.
	d	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: (a) Scientific and technical Instruments, Apparatus, Equipment (including Computers); (b) Accessories, Parts, Consumables and live animals ( experimental purpose); (c) Computer Software, Compact Disc-Read only Memory (CD-ROM), recorded magnetic tapes, Microfilms, Microfiches; (d) Prototypes, the aggregate value of prototypes received by an institution does not exceed fifty thousand rupees in financial years. The bidder should quote their prices considering the exemption. If any certification needed by bidder, may be given to avail this benefit.
	e	The 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.
	f	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices. Discount of any type, indicated separately, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be the lowest, the purchaser shall avail such discount at the time of award of contract.
	g	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.
	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	No representation for the enhancement of the prices of the accepted tender or alteration of the terms and conditions will be entertained till supplies are completed to the designated location.
12	<b>Opening of Technical &amp; Price Bid:</b>	
	a	The Technical Bid of tenders will be opened as per schedule mentioned at Important Information at a glance sheet.
	b	The Price bid of only technically qualified bidders will be opened on the stipulated due date. The date & time for opening of Price Bid shall be intimated to the technically qualified bidders through website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a> or telephonically or email, after the



		evaluation of Technical Bid.
13	<b>Withdrawal &amp; re-submission:</b>	
	a	The bidder, after submitting the tender, is permitted to withdraw and re-submission as per laid down the procedure given on Government CPPP up to the date and time of the tender through on-line only. Any such request received after prescribed date and time of receipt of tender will not be considered. No bid shall be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity. Withdrawal of bid during this period will result in forfeiture of the bidder's EMD and imposition of other sanctions.
14	<b>Evaluation of Bids:</b>	
	a	Price bid shall be submitted in Indian Rupees or US Dollar only. In case of USD, conversion rate shall be taken into consideration on the date of opening of opening Price bid.
	b	If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected.
	c	If there is an error in a total corresponding to the addition or subtraction of sub totals, the subtotals shall prevail and the total shall be corrected.
	d	If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.
	e	To assist in the examination, evaluation, comparison of the bids and qualification of the bidders, the purchaser may, at its discretion, ask any Bidder for a clarification of its bid. Any clarification submitted by a bidder in respect to its Bid and that is not in response to a request by the purchaser shall not be considered. The purchaser's request for clarification and the response shall be in writing only.
	f	If a bidder does not provide clarifications of its bid by the date and time set in the purchaser's request for clarification, its bid may be rejected.
	g	The purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to supply order, without thereby incurring any liability to bidders. In case of annulment, all bids submitted and specifically bid document, EMD deposits shall be promptly returned to the bidders.
	h	The purchaser shall compare the evaluated prices of all substantially responsive bids to determine the lowest evaluated bid for a particular location. The comparison shall be on the basis of landed cost at individual destination.
	i	At the time the contract is awarded, the purchaser may increase the quantity of Equipments without any change in the unit prices or other terms & conditions of the bid and the bidding documents subject to the acceptance of bidder in writing for the same.
	j	The purchaser have right to verify the particulars furnished by the bidder independently.
15	<b>Validity of Tender:</b>	
	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.
16	<b>Causes of rejection of Tender:</b>	
	a	The bidder must be a single company, consortium will not be allowed.
	b	While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected.
	c	If any bidder stipulates any condition of his own, such conditional tender is liable to be rejected.
17	<b>Forfeit of Earnest Money Deposit:</b>	
	a	If any bidder withdraws his tender before the period of 90 days from the date opening of Technical Bid or makes any modifications in the terms and the conditions of the tender which are not acceptable to the purchaser, then the purchaser shall, without prejudice to any other rights or remedy, be at liberty to forfeit the EMD.
	b	The EMD will also be forfeited in following cases: <ul style="list-style-type: none"> <li>i. If the bidder fails to accept the order based on his offer (bid) and within the prescribed time.</li> <li>ii. If the bidder fails to supply the Equipments with specifications as mentioned in <b>Annexure –3 &amp; 4</b></li> <li>iii. If the bidder delays supplies beyond a reasonable time resulting in disruption of project.</li> <li>iv. Bidder for any reason whatsoever withdraws the tender after it is accepted or become unable or fails to execute the orders within stipulated delivery period.</li> <li>v. Submission of misleading/contradictory/false statement or information and fabricated/invalid documents is detected before or after the issue of order to execute the supplies.</li> </ul>
18	<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 supply of equipments, installation, testing & commissioning.
19	<b>Packing of Equipments:</b>	
	a	The bidder shall provide packing of the equipments, as is required to prevent their damages or deterioration during the transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit. In case the consignment received with damaged packaging, the purchaser would not accept the delivery.
	b	The equipments shall be securely boxed, crated and protected from mechanical damage, moisture etc. suitable for both storage and transit according to the nature of the material and mode of transport. The bidder shall be responsible for any loss/ damage to material during transportation to the designated location.
20	<b>Time Limit for Supply of Equipments, Installation, &amp; Commissioning:</b>	
	a	The bidder shall indicate the period within which the ordered quantity will be supplied along with Installation, Testing & Commissioning of Equipments.

		The bidder shall note that in case bidder fails to do so within the period of delivery indicated by the bidder in Technical Bid of this tender, penalty @ 1.00% of value of the order per week of delay would be levied subject to maximum 12 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 12 weeks after expiry of scheduled delivery date. After that the supply order shall be cancelled and EMD will be forfeited and bidder will be debarred from participation in any future tenders.
	b	The successful Bidder shall, within a week from the date of receipt of communication of acceptance of quotes from purchaser shall intimate his acceptance of the order. The successful bidder shall complete supplies strictly as per the accepted delivery period.
21	<b>Terms of Payment:</b>	
	a	Total 100% payment of bill will be made in Indian Rupees through LC. Out of which 75% payment shall be at the time of delivery of material at Institute and remaining 25% payment shall be made after installation, commissioning, testing & training upon submission of inspection report duly signed by Institute Committee and submission Security Deposit of 10% total Purchase order value for a period of one year plus two months by way of Bank Guarantee/ FDR/DD. Bidder has to provide necessary documents like Commercial Invoice, Certificate of origin. Packing list, Wood packing certificate, Bill of lading Insurance cover, Custom clearance document as the case may be.
	b	In case of foreign bidder, LC (US Dollar) shall be opened for entire quote value of equipment. 75% payment of total bill will be made by purchaser after delivery of material at Institute. Remaining 25% payment will be made after installation, commissioning, testing & training upon submission of inspection report duly signed by Committee and submission Security Deposit of 10% total Purchase work order value for a period of one year plus two months by way of Bank Guarantee/ FDR/DD. Bidder has to provide necessary documents like Commercial Invoice, Certificate of origin. Packing list, Wood packing certificate, Bill of lading Insurance cover, Custom clearance document as the case may be.
22	<b>Claims:</b>	
	a	If the specification of supplied equipments are found to be lower than those stipulated in the accepted offer, the purchaser shall have right to totally reject the supplied equipments to claim for compensation from bidder. The bidder shall reimburse to purchaser, the claim lodged in writing within 15 (fifteen) days of its demand. The bidder shall also compensate for losses, if any, sustained by purchaser due to defective packing and/or wrong marking of the equipments.
	b	The bidder shall be responsible for arranging the rejected equipments to be removed at his cost from purchaser premises.

**CHAPTER-II**

**ELIGIBILITY & QUALIFICATION CRITERIA**

1	The bidder should be a Company/Partnership firm/ Proprietary firm/ Agency with registered office in India and operation from at least 05 (Five Years) as on 31/03/2021. The copy of the registration Certificate shall be attached with the Technical Bid.
2	Either Bidder or Original Equipment Manufacturers (OEM) must have ISO certification for their establishment. The copy of the valid ISO Certificate shall be attached with the Technical Bid.
3	The bidder should have average financial turnover during the last three consecutive financial years should be at least Rs. 25,00,000.00 (Twenty Five lacs only) per year and OEM should have average financial turnover during the last three consecutive financial years should be at least Rs. 1,00,00,000.00 (One Crore only) per year with positive net worth. Relevant supporting document like Profit & Loss Account/ CA certification must be submitted with the Technical Bid.
4	The EMD of Rs. 1,00,000.00 (One Lakh Only) shall only be remitted through RTGS/NEFT/ Bank deposition into Institute bank account. The copy of reference sheet shall be attached with the Technical Bid.
5	The bidder must have Income Tax PAN and GST Number. Copy of the Certificate/ Card shall be attached.
6	The bidder/OEM should have experience in successfully execution/ executing work of similar nature during last 05 (five) years ending 31st March, 2021 in any Central/State government organizations, PSU's, Government research Institutes or public listed company in India. (Bidder must submit copy of PO/Work Completion Certificate mentioning value of work from the Client in following manner.) <ol style="list-style-type: none"> <li>1. One similar work costing not less than 80% of the estimated cost. OR</li> <li>2. Two similar work costing not less than 60% of the estimated cost. OR</li> <li>3. Three similar work costing not less than 40% of the estimated cost</li> </ol>
7	The bidder should be OEM or Authorized Dealer/Distributor/System Integrator of the OEM of the offered product. Authorization Letter from OEM to be submitted with the Technical Bid.
8	The Bidder/ OEM must have its own Service/ Support centre in India preferably in MP for attending complaints / suggestions.
9	The bidder should have a clean Track record, i.e. The Bidder should not have been black listed by any Govt. or Quasi- Govt/ Govt. Under taking companies in India at any point of time.
10	The bidders who have refused to execute any work order issued by MANIT in the past are disqualified from participating in this tender.
11	No bidder is allowed to sub-contract any part of the work to any firm/party.

CHAPTER-III	
GENERAL CONDITIONS OF CONTRACT	
1	<p><b>Abbreviations &amp; Acronyms:</b></p> <p>a Abbreviations &amp; Acronyms and Definitions used in this tender document shall be in accordance with GFR 2017 and Manual for procurement of Goods 2017.</p>
2	<p><b>Language of Bids:</b></p> <p>a The bids prepared by the bidder and documents relating to the bids exchanged by the bidder and the Purchaser, shall be written in the English language only. Moreover, the printed literature/Technical details may be furnished in English/Hindi.</p>
3	<p><b>Standards of Performance:</b></p> <p>a The bidder shall perform the Services and carry out its obligations under the contract with due diligence, efficiency and economy, in accordance with generally accepted techniques and practices used in the industry and with professional engineering and consulting standards recognized by international professional bodies and shall observe sound management, engineering practices. It shall employ prudent technical and engineering practices. It shall employ advanced technology and safe and effective equipment, machinery, material and methods. The bidder shall always act, in respect of any matter relating to this contract, as faithful advisors to the client and shall, at all times, support and safeguard the client's legitimate interests in any dealings with third Parties.</p>
4	<p><b>Force Majeure:</b></p> <p>a In the event of any unforeseen circumstances directly interfering with the supply of goods/work/service arising during the execution of order such as war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, floods, earthquakes, explosions, epidemics, quarantine restrictions, strikes, lockouts, or acts of God, the bidder shall, within a week from the commencement thereof, notify the same in writing to the Purchaser with reasonable evidence thereof. Either party shall have the option to terminate the contract on expiry of 90 days of commencement of such force majeure by giving 14 days "notice to the other party in writing. In case of such termination, no damages shall be claimed by either party against the other.</p>
5	<p><b>Code of Ethics:</b></p> <p>a The purchaser as well as the Bidder shall observe the highest standard of ethics including laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988", during the Supply &amp; Installation or execution of such contracts. If the bidders are found in bid pooling or against law against fraud and corruption then their firms may be blacklisted.</p>
6	<p><b>Address for communication:</b></p> <p>a All the communication with respect to the tender shall be addressed to: The Head of Department Department of Physics Maulana Azad National Institute of Technology- Bhopal- 462 003</p>
7	<p><b>Jurisdiction:</b></p> <p>a In the event of any dispute the legal matter shall be subjected to the jurisdiction of Bhopal court only.</p>

**BIDDER INFORMATION  
FORM**

		Name of Agency→	
		Registered Complete Address→	
Year of Establishment→			
Type of Agency→ Company / Partnership Firm/ /Proprietary Firm/			
Name of Owner / Authorized Person→			
Contract No with e-mail ID→			

**Details of Statutory compliances and its valid Numbers:**

SN	Particular	Number	Remarks
1.	Bidder's Registration Gumasta License →		
2.	Income Tax PAN→		
3.	GST Number→		
4.			

**Details of Bank Account :**

Beneficiary Name			
Bank Name		Branch	
Account Number		IFSC	

**DECLARATION**

It is certified that the information furnished in this form is complete and correct to the best of our knowledge & belief.

Signature of authorized Person and Seal

		<b>ANNEXURE- 2</b>	
<b>PRIMARY COMMERCIAL COMPLIANCE STATEMENT</b>			
Ref:	Tender document No: MANIT/Phy /2021/4116 dated: 17/09/2021.		
SN	Institute Requirement as per tender document	Compliance	Deviation if any
		Yes/ No	
1	Copy of Certificate of Registration of Company/ Firm/ Agency		
2	Copy of valid PAN and GST No:		
4	Copy valid ISO certificate Bidder/OEM		
5	Undertaking for participation <b>ANNEXURE-6</b>		
6	Authorization Certificate from Original Equipment Manufacturer for components <b>ANNEXURE-7</b>		

<b>Details of EMD &amp; its Exemption</b>			
Amount	Mode of Deposition	Date of Deposition	Reference No
<b>1,00,000.00</b>			
Basis of EMD Exemption			

<b>Details of all ongoing &amp; completed contracts during the last five years as per eligibility &amp; qualification criteria in Chapter-II. (Copies of Purchase order / Work Completion Certificate must be attached)</b>					
SN	Name of the organization with address	Period of Contract		Nature of Work	Value of Contract
		From	To		
1					
2					
3					
4					
<b>Details of financial Turnover during last three year. (Please attach copy of P&amp;L Accounts/ CA Certificate)</b>					
Financial Year	Bidder Rs. 25,00,000.00	OEM 1,00,00,000.00	Remarks, if any		
2020-21					
2019-20					
2018-19					

**Seal & Signature of Bidder**

**Bill of Quantity**

Ref: Tender document No: MANIT/Phy /2021/4116 dated: 17/09/2021.

<b>SN</b>	<b>Description of Item</b>	<b>Quantity</b>	<b>Technical Specification reference</b>
1	<b>Supply, Installation, Testing, Commissioning and Training of Ferroelectric, Piezoelectric, Pyroelectric Characterization Test System</b>	01 Nos.	Annexure 4

## Note:

1	All the Equipments/Accessories/Components/ Software/ License which are provided by default by the manufacturer must be supplied along with the devices.
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		<b>ANNEXURE- 4</b>
<b>Details of Technical Specifications</b>		
Ref:	Tender document No: MANIT/Phy /2021/4116 dated: 17/09/2021.	

<b>Details of Technical Specifications</b>		
<b>SN</b>	<b>Generic Requirement Compliance</b>	<b>Compliance (Yes/No)</b>
01	<p>This Test System should be capable of performing Hysteresis, Leakage Current, Charge, Retention, Resist, Fatigue, Charge decay response using pulse, I-V, C-V, Standard Ferroelectric memory characterization, Imprint, Voltage breakdown as a function of applied electric field and temperature, Piezoelectric, Pyroelectric characterization of samples under test:</p> <ol style="list-style-type: none"> <li>1. Hysteresis Frequency Range: 0.03Hz or lower – 5kHz or higher</li> <li>2. Drive Voltage Range (with built-in amplifier): 0 to ± 100V</li> <li>3. Data Points required for Highest Accuracy: 8000 data points or higher</li> <li>4. Voltage Range (with High Voltage Interface (HVI) and external amplifier): 0 to ±10kV</li> <li>5. Number of ADC Bits: 16 or higher</li> <li>6. Minimum Charge Resolution: 10fC or better</li> <li>7. Minimum Leakage Current: 2pA or better</li> <li>8. Pulse width range: 50µs to 1s or better</li> <li>9. Waveforms: Triangular, inverse cosine, double bipolar sine, sinusoidal, switched/un-switched triangular, mono, double, standard bipolar, pulse (charge decay analysis), zero, customized</li> <li>10. The software operating the tester must be programmable and capable of executing all measurement types in an arbitrary order without configuration change.</li> <li>11. Captured data must be automatically stored and easily transferred to other testers using network protocols.</li> <li>12. The tester software must be adaptable to future changes in the host computer operating system.</li> <li>13. The tester/setup must be capable of capturing external sensor data synchronously with polarization measurements.</li> <li>14. Computer and Ferroelectric Test System should be separate and connected through USB Cable, so that in future any advanced new computer can be utilized with Test System.</li> <li>15. The system should incorporate software for (CV) Measurement.</li> <li>16. The software(s) must have lifetime up gradation and support.</li> <li>17. The system should have Electrometer input at all test Frequencies.</li> </ol> <p><b><u>Proper interfacing with basic system ( HVI-HIGH VOLTAGE INTERFACE)</u></b></p> <p>For safety of the user from HIGH VOLTAGE the following specifications must be met:</p> <ul style="list-style-type: none"> <li>○ Maximum International Rating - 10kV (AC) Voltage</li> <li>○ High speed Protection current Rating- 10Amps or better</li> <li>○ High speed Protection Trigger Voltage- 2.0V or better</li> <li>○ The original equipment manufacturer (OEM) should provide</li> </ul>	

	<p>extra High Voltage Cables to connect the system with any available sample holder in the Lab.</p> <ul style="list-style-type: none"> <li>○ System should have dedicated sample holder (which should accommodate samples of diameter 10-20 mm, thickness 0.1-0.2 mm or better) and any kind of sample should be connected with appropriate wirings and can be connected to any available cryogenic chamber or any available furnace available in the laboratory. However, system should also work with any sample holder.</li> </ul> <p><b><u>High Power amplifier interfaced with Basic Ferroelectric Test System (HIGH VOLTAGE AMPLIFIER)</u></b></p> <p>Output voltage and current range:</p> <ul style="list-style-type: none"> <li>○ 0 to ±10kV DC or peak to peak</li> <li>○ 0 to ±2mA DC or peak to peak</li> <li>○ with 0.1% accuracy of full scale or better</li> <li>○ Overload and over current protection</li> </ul> <p><b><u>Piezoelectric and Pyroelectric Test system measurement attachment/fixture</u></b></p> <p>The <b>Piezoelectric measurement attachment/fixture</b> should include:</p> <ul style="list-style-type: none"> <li>● Displacement measurements for bulk ceramic piezoelectric/pyroelectric test system at 200 degree C or higher.</li> <li>● Fiber optic Sensors, Photonic sensors' sensor for displacement measurement (with specification range 100 Nanometer or lower to 6 mm or higher).</li> <li>● The heating unit is built-in to the sample holder with PID controller.</li> <li>● To accommodate various sample geometries.</li> <li>● Measurements should be fully automated and controllable by software(s).</li> </ul> <p><b>The system should be able to measure:</b></p> <ul style="list-style-type: none"> <li>● Displacement vs Thickness</li> <li>● Displacement vs Voltage</li> <li>● Piezoelectric Fatigue</li> <li>● Piezoelectric Ageing</li> <li>● Composition Comparison Analysis</li> <li>● Displacement vs Temperature</li> <li>● All piezoelectric measurements vs Temperature</li> </ul>	
<b>Note:</b>		
1	Any accessories that are required to make the equipment (s) operational not mentioned in the document, are required to be incorporated by the bidder as to make the equipment (s) fully & systematically operational.	
2	All the accessories/components/ software/ license which are provided by default by the manufacturer must be supplied along with the equipment.	
3	All information regarding above specifications/ measurements/ calculations should be available/mentioned on the OEM website as well as should be provided on OEM letterhead.	

## FORMAT FOR SUBMISSION OF PRICE BID

From,	To,
	<b>The Director</b>
	MANIT- Bhopal- 462 003

Sub: **Price Bid with reference to Tender document No: MANIT/Phy /2021/4116 dated: 17/09/2021.**

SN	Description of Material	Make & Product No	Quantity	Discounted Unit Price	Basic Price	Custom Duty	GST	Total Price
1	2	3	4	5	6 (4*5)	7	8	9(6+7+8)
1	Supply, Installation, Testing & Commissioning of Ferroelectric, Piezoelectric, Pyroelectric Characterization Test System		01					
<b>Gross Total →Net offered Price→</b>								

Net offered Price ( In Words)

The followings things are confirmed and undertake by us that:

- |   |  |
|---|--|
| a | The total price quoted above are inclusive of basic price, statutory duty & taxes, Transportation, Incidental services (including Insurance, Loading/ unloading, Packing & Forwarding charges, Installation etc.) at site. |
| b | We agree with the terms and conditions specified in tender document 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:

		<b>ANNEXURE- 6</b>
	(Undertaking from Bidder on their official stationery)	
To,		
The Director		
Maulana Azad National Institute of Technology		
Bhopal- 462 003		

Sub:	Undertaking for the participation in the Tender document No: MANIT/Phy /2021/4116 dated: 17/09/2021.
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Dear Sir,

<b>HAVING EXAMINED AND PERUSED THE FOLLOWING DOCUMENTS</b>	
1	Notice Inviting Tender
2	Instruction to Bidders Chapter-I,II and III
3	Primary Commercial Compliance Statement ( <b>Annexure- 2</b> )
4	Bill of Quantity ( <b>Annexure-3</b> )
5	Technical Specifications of Equipments ( <b>Annexure-4</b> )
6	Price Bid ( <b>Annexure- 5</b> )
<p>I/We .....do hereby submit the above tender in prescribed formats duly completed in all respects in accordance with the conditions applicable. If this tender is accepted, I/We agree to abide by and fulfill all the terms and conditions in the tender documents.</p> <p>I/We hereby distinctly and expressly declare and acknowledge that before the submission of this tender, I/We have carefully followed the instructions and I/We have understood the existing system of supply at the location of purchaser including the scope and nature of duties expected from the bidder.</p> <p>I/We distinctly agree that I/We would hereafter make no claim or demand upon the purchaser based upon or arising out of any alleged misunderstanding or misconceptions or mistake on my/our part of the said stipulations, restrictions and conditions.</p>	
<p>I/ We declare that our unit has never made any default in supplying the Equipments / equipment to Government / Semi Government/ Central or State Public Sector Enterprise(s) in terms of quality and financial agreed supply conditions.</p>	
<p>I/We fully understand the terms and conditions in the tender documents.</p> <p>I/We understood that the purchaser is not bound to accept any proposal that it may receive without assigning any reason.</p>	
Date:	Authorized Signatory

		ANNEXURE- 7
<b>AUTHORIZATION LETTER FROM ORIGINAL EQUIPMENT MANUFACTURER</b>		
No:	Date:	
To,		

Ref:	Tender document No: MANIT/Phy /2021/4116 dated: 17/09/2021.
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Dear Sir,	<p>We _____ who are established and reputable manufacturers of <i>(name and description of goods offered)</i> having factories at _____ <i>(address of factory)</i> do hereby authorized M/s _____ <i>(Name and address of Agent)</i> to submit a bid, and sign the contract with you for the goods manufactured by us against the above tender and they are in the supply and maintenance of our products since _____ years.</p> <p>We hereby extend our full guarantee and warranty as per terms &amp; Conditions of Contract for the goods and services offered for supply by the above firm against this Tender.</p>
	Yours Faithfully,
	(Name of the manufacturer)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

Modifying this format suitably in case where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited.