## मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान भोपाल

Maulana Azad National Institute of Technology Bhopal

(भारत सरकार, शिक्षा मंत्रालय के अधीन राष्ट्रीय महत्व का संस्थान)

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



### सीमित निविदा पूछताछ LIMITED TENDER ENQUIRY

सामग्री / वस्तु का नाम Name of Goods/Items

Wind Turbine Emulator

Website	www.manit.ac.in	Fax No:	0755-2670562
Email Address:	info@manit.ac.in	Telephone	0755-4051000, 0755-4052000
		No:	

	अनुक्रमणिका / INDEX				
क्रमांक	विवरण /	पृष्ठ क्रमांक			
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मौलाना आजाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल Maulana Azad National Institute of Technology Bhopal (भारत सरकार, शिक्षा मंत्रालय के अधीन राष्ट्रीय महत्व का संस्थान) (An Institution of National Importance under MoE, Govt. of India) No. MANIT/ESE/2025:15 दिनांक / Date:21/11/2025 निविदा आमंत्रण सूचना **NOTICE INVITING TENDERS** सामग्री / वस्त् का नाम Wind Turbine Emulator Name of Goods/Items उपरोक्त सामग्री / वस्तु के लिए निविदाएँ अमंत्रित की जाती हैं। इच्छुक निर्माता / अधिकृत भागीदार / एंजेन्सियाँ, अधिक जानकारी के लिए संस्थान के वेबसाईट और **CPPP** वेबसाईट www.manit.ac.in www.eprocure.gov.in/epublish/app पर लाग-इन कर सकती 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 11 दिसंबर 2025 अपरान्ह 12.00 बजे तक है। संस्थान निदेशक, बिना कोई कारण बताए किसी या संपूर्ण निविदा को पूर्ण या आंशिक रूप से स्वीकार या अस्वीकार करने का अधिकार स्रक्षित 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 documents is 11 December 2025 up to 12.00 hours. The Director of the Institute reserves the right to accept or reject any or the entire tender in full or in part without assigning any reason whatsoever.

Registrar

# मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल

Maulana Azad National Institute of Technology Bhopal

Maulana Azad National Institute of Technology Bhopal						
एक नजर में महत्वपर्णू जानकारियाँ						
IMPORTANT INF	GLANCE					
निविदा क्रमांक एवं दिनांक	No. M	ANIT/ ESE/	2025:15			
Tender No & Date		21/11/2025				
निविदा का कार्य			NDFR			
सामग्री / वस्तु का संक्षिप्त विवरण	4171/ 54	संख्या	टिप्पणी			
Brief Description of Goods/Items	S	Quantity	Remarks			
Wind Turbine Emulator		As per BoQ	संलग्नक–। पर विस्तृत विवरण Detailed Specification at Annexure-I			
निविदा की अनुमानित लागत		Rs.550000	.00			
Estimated cost of Tender						
आपूर्ति एवं स्थापना का स्थान		ऊर्जा विज्ञान	मं एवं अभियांत्रिकी विभाग			
Location of Supplies & Installation	n					
		Department of Energy Science & Engineering				
		at Institute				
निविदा दस्तावेज की उपलब्धता		www.manit.ac.in				
Availability of Tender Document		www.eprocure.gov.in/epublish/app				
्र निविदा जमा करने के अंतिम दिनांक एवं सम						
Last Date & Time of Submission		11-12-4	2025 up to 12:00 hours			
Tender	01					
निविदा खुलने की दिनांक एवं समय		11_1	2-2025 at 15:00 hours			
Date & Time of Opening of Bids		11-1.	2-2023 at 13.00 hours			
निविदा वैधता की अवधि		(0 do f	41 1.4 C			
Tender Validity period		<b>60 days</b> from the date of opening of the Technical Bid				
वितरण / आपूर्ति की अवधि						
Delivery/ Supply period		<b>06 weeks</b> from the date of issue of				
		Supply Order				
वारंटी अवधि		•	om the date of successful			
Warranty Period		Installation equipments	& Commissioning of / items			
बोली सुरक्षा / बयाना राशि		As per s	lab mentioned in the			
Bid Security/ EMD		document.				
निष्पादन सुरक्षा राशि		As per s	lab mentioned in the			
Performance Security Amount		document				

	बो	लीदाता के लिये निर्देश/अनुदेश/INSTRUCTIONS TO BIDDERS					
		, 3					
1	Scope	of Supplies & Work:					
	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.					
	С	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.					
	e	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.  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 <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.					
2	Deliver	ry 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.					
	ь	The material shall be inspected on receipt at site and bidder shall be					
		The material shall be hispected on receipt at site and stadel shall be					

		responsible for any dam	age during the trans	sit of Goods/Ite	ems.		
	С	The insurance cover inc	<u> </u>				
		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	Warra	nty & After Sales Service					
	a	The bidder shall offer					
		mentioned at IMPORTAN			_		
		location & shall cover of					
		having limited life etc.	<u> </u>	t liable to pay	any extra charges on		
	-	any account during warr					
	b	The bidder shall ensur		sales services	during the warranty		
1	E11 .	period to the satisfaction	of purchaser.				
4		lity Criteria:		Carrel Dana ani ata	C / A av. av. 1		
	a	Bidder should be a Cor		-			
		operational from at leas registration shall be atta		as on close da	te of tender. Copy of		
	b	Bidder should have min		ver (Double va	lue of estimated cost		
	U	of tender) in last year .C		*			
	С	The Earnest Money Dep			oe suomitted.		
	d	Bidder should have GST					
5	Earnes	st Money Deposit:					
	The	bidder is instructe	d to submit	EMD in	the form of		
	DD/FD	R/RTGS/NEFT/BG/Banl	k deposition slip alo	ong with bid to	prove the transfer of		
	payme	nt to the purchaser's Acco	ount as per EMD sl	ab mentioned b	pelow:		
		Tender Value	EMD R	late	Remarks		
	Less tha	Tender Value an 2.50 Lakhs	NIL EMD R	Rate	Remarks		
					Remarks		
		an 2.50 Lakhs	NIL	e rounded off	Remarks		
	Betwee	an 2.50 Lakhs n 2.50 lakhs to 25.00  Purchaser's Bank Acco	NIL 2% of Tender Value in nearest in 100 rup	e rounded off	Remarks		
	Betwee Lakhs	an 2.50 Lakhs n 2.50 lakhs to 25.00	NIL 2% of Tender Value in nearest in 100 rup	e rounded off pees.  Bank A/c	Remarks  Bank IFS Code		
	Betwee Lakhs	n 2.50 Lakhs n 2.50 lakhs to 25.00  Purchaser's Bank Acco Account Name	NIL 2% of Tender Value in nearest in 100 rup unt details: Bank Name	e rounded off bees.  Bank A/c No.	Bank IFS Code		
	Betwee Lakhs	an 2.50 Lakhs n 2.50 lakhs to 25.00  Purchaser's Bank Acco	NIL 2% of Tender Value in nearest in 100 rup unt details: Bank Name State Bank of	e rounded off pees.  Bank A/c			
	Betwee Lakhs	n 2.50 Lakhs n 2.50 lakhs to 25.00  Purchaser's Bank Acco Account Name  Director MANIT Bhopal	NIL 2% of Tender Value in nearest in 100 rup unt details: Bank Name  State Bank of India	Bank A/c No. 10020150107	Bank IFS Code SBIN0001608		
	Betwee Lakhs	Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return	NIL 2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India  med to the unsuccess	Bank A/c No. 10020150107	Bank IFS Code SBIN0001608 on after placement of		
	Betwee Lakhs a	n 2.50 Lakhs n 2.50 lakhs to 25.00  Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return order and successful bid	NIL 2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India ned to the unsuccess der shall get its EM	Bank A/c No. 10020150107  sful bidders soo	Bank IFS Code  SBIN0001608  on after placement of of material.		
	Betwee Lakhs	Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return order and successful bid The bidder seeking E	NIL  2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India ned to the unsuccess der shall get its EM MD exemption, n	Bank A/c No. 10020150107  sful bidders soo ID after supply	Bank IFS Code  SBIN0001608  on after placement of of material.  he valid supporting		
	Betwee Lakhs a	Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return order and successful bid The bidder seeking E document for the relevant	NIL  2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India ned to the unsuccess der shall get its EM MD exemption, many ant category. Many many category.	Bank A/c No. 10020150107  sful bidders soo ID after supply must submit to	Bank IFS Code  SBIN0001608  on after placement of of material.  the valid supporting regoods and service		
	Betwee Lakhs a	Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return order and successful bid The bidder seeking E	NIL  2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India ned to the unsuccess der shall get its EM MD exemption, no want category. Man are eligible for exemption of the state of the state of the state of the unsuccess derivation.	Bank A/c No. 10020150107  sful bidders soo ID after supply must submit t nufacturers for xemption from	Bank IFS Code  SBIN0001608  on after placement of of material.  he valid supporting r goods and service a EMD under MSE		
6	Betwee Lakhs a b c	Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return order and successful bid The bidder seeking E document for the relevance providers for services	NIL  2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India ned to the unsuccess der shall get its EM MD exemption, many are eligible for execluded from the put	Bank A/c No. 10020150107  sful bidders soo ID after supply must submit t nufacturers for xemption from	Bank IFS Code  SBIN0001608  on after placement of of material.  he valid supporting r goods and service a EMD under MSE		
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	Betwee Lakhs a b c Amenda	Purchaser's Bank Acco Account Name  Director MANIT Bhopal  The EMD will be return order and successful bid The bidder seeking E document for the relevance orders for services Category. Traders are exament of Tender Docum  At any time prior to the reason, whether at its own a prospective bidder, corrigendum will be www.eprocure.gov.in/ep.  Bid  The Prices should be que Purchaser (being a rese	NIL  2% of Tender Value in nearest in 100 rup unt details:  Bank Name  State Bank of India ned to the unsuccess der shall get its EM MD exemption, may are eligible for excluded from the putent: e date submission of which is declared in Indian Rupe earch Institution) is	Bank A/c No. 10020150107  Sful bidders soo ID after supply must submit to nufacturers for exemption from review of this p  of bids, the puresponse to a cle ent by issuing lished in extitute website of eses only. registered with	Bank IFS Code  SBIN0001608  on after placement of of material.  he valid supporting regoods and service and EMD under MSE olicy.  The chaser, may, for any parification sought by generated configured to the change of the configure of the configu		
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		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 Su	bmission:
		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 and installation of Wind Turbine Emulator."
		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	Certificate mentioning of Turnover for the last year and OEM authorization
		letter.
	d	<b>BOQ</b> Annexure-I and Price <b>Bid</b> Annexure-II duly filled and signed.
9	Evalua	ation of Bids:
	The In	stitute may evaluate all the required Goods/Items in this tender together or
	indepe	ndent depending upon nature of items & compatibility and compare the
	quotati	ons 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	Validit	ty 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	Notific	eation 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	Pur may	chase/ Contract orde y request in advance	for issuance o	f Pu	rchase/ Contra	our of bidder. Bidder ct order in favour of made to OEM only.
12	Perfor		ce Security Deposits		1	~	· ·
	The b	idde	r is required to	submit Per	form	ance Security	in the form of
	DD/FD	R/R	TGS/NEFT/BG/Banl	k Deposit after	inst	tallation of ma	terial along with the
	bill to t	the In	stitute as per slab m	entioned below	V:		
			Contract Value		D R	ate	PSD Period
			50 Lakhs	NIL			Warranty period
		n 2.50	0 lakhs to 25.00	5% of Tender V			plus two month
	Lakhs	1		in nearest in 10	0 rup	bees.	extra
	a		chaser's Bank Acco				
		Acc	count Name	Bank Name		Bank A/c No.	Bank IFS Code
		Dire	ector MANIT Bhopal	State Bank India	of	10020150107	SBIN0001608
	b						be forfeited and the
				-	od as	s decided by the	e competent authority
			ddition to cancellation				
	c						without any interest,
13	Penalt		atsoever, after comple	tion warranty po	2110U	as specified iii	the tender.
13	a			e the period wi	ithin	which the ord	ered quantity will be
	а						Goods/ Items. The
							he period of delivery
							y @ 0.50 % on total
			•	1		· 1	ject to maximum 20
			-	•		•	elayed supply to the
			ximum of 20 weeks a				
14	Terms	of P	ayment:				
	a		e Payment shall be a		) da	ys by purcha	ser after supply and
			allation of Goods/ Ite	ems.			
15	Jurisd						
	a		=	_	gal	matter shall b	be subjected to the
1.6	D : 11	jurisdiction of Bhopal court only.					
16		01 C	ontact Persons for Q				
Nam			Dr. Prashant Bareda	ar		kesh Singh Pari	
Desi	gnation		Professor		Tec	chnical Assista	nt
Tel 1	No		9406511666		917	79840676	
Ema	il				Ral	kesh.singh@ma	anit.ac.in

			ANNEXURE-I
	मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्था	न, भोपाल	
	Maulana Azad National Institute of Techn	ology Bhop	oal
	सामग्री की मात्रा एवं विवरण	•	
	BILL OF QUANTITY AND SPECIF	<b>ICATION</b>	
SN	Name of Product/ Items	Quantity	Remarks
2	Wind Turbine Emulator (Specification as per	02 nos.	
	annexure-A)		

NB: Drawing/ Design is enclosed herewith.

<u> </u>					
We confirm with our acceptance to the technical specification as given above.					
Date:		BIDDER'S NAME &			
		SIGNATURE WITH SEAL			

						ANNEXURE- II
	FORMA	AT FOR SUBM	IITTIO	N OF BID	PRICE	
To,						
	Director					
MAN	NIT- Bhopal- 462 003					
Sub:			I _			
SN	Product Description	Discounted	Qty	Qty	GST	Total Price
	with make & Model	unit price		Price		
1	2	3	4	5	6	7(5+6)
1						
1						
2						
2						
				Total offe	red Price	
				Total offic	icu i iicc	
Total	l ( In Words):					
1014	( in words).					
Deliv	very Period required:					
2 011 .	ory remousequation.					
The 1	followings things are con	firmed and und	lertake l	y us that:		
a	The price quoted al				Levies d	& Taxes, Duties,
	Transportation and o					
	Forwarding charges, In	_		,	8	δ, δ
Ъ	Taxes are subject to ch					
С	We agree with the terms and conditions specified in "Instructions to Bidders" and if					
	selected, the execution					
	Specification.				•	•
Date	:			S	ignature of	Authorized Bidder
					with p	roper rubber stamp
		Name:				
		Designation:				
Mobile No						

### WIND TURBINE EMULATOR

### **Technical Specifications**

S. No.	Component	Specification
1.	DC Motor	
	Output Power	1kW
	Nominal Field Voltage	220V DC
	Nominal Armature	220V DC
	<ul> <li>Speed at rated voltages</li> </ul>	1500
2.	DC Drive	
	Input voltage	230 V
	Input Current	10 A
	Output Voltage	200 V
	Output Current	10 A
	Switching Frequency	10 kHz
3.	Buck Converter after generator	
	Input voltage	450 V
	Output Voltage	24 V
	Output Current	10 A
	Switching Frequency	10 kHz
4.	PMS Generator	
	• Type	PMSG
	Output Power	500 W
	Line to Line Voltage	415V AC
	• RPM	1500
5.	Tacho-Generator	
	Input Voltage	24V DC
	Speed Encoding	10V DC for 1500RPM
6.	Control Card	
	<ul> <li>Technology</li> </ul>	Microcontroller
	ADC Inputs	Available
	PWM Ports	Available
7.	Sensing Board	
	<ul> <li>DC Voltage Sensors</li> </ul>	
	DC Current Sensors	
8.	Pull-UP Card for Inverter Gate Firing	8 PWM Signals
9.	Bridge Rectifier	
<b></b>	• Rating	10A, 400V
	Capacitor	3300μF, 450V
10.	Single Phase Inverter	
10.	• 2 Leg inverter	
	Maximum DC Input Voltage	24V DC
	Output Voltage	220 V AC
	Rated Power	
	- Raiou I Owol	500 W
11.	Measurement	
	DC Link Voltage Voltmeter	0-1000 V
	Armature Voltage Voltmeter	0-1000 V
	Field Voltage Voltmeter	0-1000 V
	6	0-200 V

		T	0.400077
		Battery Voltage Voltmeter	0-1000 V
		<ul> <li>Rectified Voltage Voltmeter</li> </ul>	0-10 A
		Battery Current Ammeter	0-2000 RPM
		Tachometer	
	12.	Protection	
		<ul> <li>AC and DC MCBs</li> </ul>	
	13.	Battery Bank	
		• Voltage	12 V
		• Capacity	24 Ah
		Total No. Of Batteries	4
	14.	Autotransformer Single Phase	
		Voltage Range	0-250 V
		• Wattage	2 kW
	15.	Autotransformer Single Phase	
	10.	Voltage Range	0-250 V
		Wattage	5 kW
	16.	Wind Turbine Mode	1. Manual Mode – In manual
	10.	Wind Farbine Wode	mode WTE can be operated
			simply by increasing the wind
			speed using GUI
			2. Table Mode – In Table
			mode, a wind profile can be
			manually added to the system
			and WTE system will follow
			the defined wind profile during
			operation
			3. Simulated Mode – In
			Simulated mode, a wind profile
			saved in csv format can be
			uploaded to the system and
			WTE will follow the uploaded
			profile.
	17.	Features	<ul> <li>Should be easy access to Power</li> </ul>
			converters and Inverters for
			modifying connections for
			research purpose.
			• User modifiable Open-source
1			software to conduct their own
			research
1			1