## 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 क	सामग्री / वस्तु का नाम Three Phase Dual Converter Based Drive					
Name of Goods/Items						
Website www.manit.ac.in			Fax No:	0755-2670562		
Email Address: info@man		t.ac.in	Telephone	0755-4051000, 0755-4052000		
			No:			

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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) No. MANIT/EE/2025/019 दिनांक / Date:17/09/2025 निविदा आमंत्रण सूचना NOTICE INVITING TENDERS सामग्री / वस्तु का नाम Three Phase Dual Converter Based Drive Name of Goods/Items उपरोक्त सामग्री / वस्तु के लिए निविदाएँ अमंत्रित की जाती हैं। इच्छ्क निर्माता / अधिकृत भागीदार / एंजेन्सियाँ, अधिक जानकारी के लिए संस्थान के वेबसाईट वेबसाईट और **CPPP** 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 आजाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल – 462003 जमा किया जा सकता है। सम्पूर्ण निविदा मय दस्तावेज प्रस्तुत करने की अंतिम तिथि 08/10/2025 अपरान्ह 12.00 बर्जे तक है। संस्थान निदेशक, बिना कोई कारण बताए किसी या संपूर्ण निविदा को पुर्ण या आंशिक रूप से स्वीकार या अस्वीकार करने का अधिकार सुरक्षित है। कुलसचिव Tenders are invited for aforesaid Goods/ Items. Interested Manufacturers/ Authorized Partner/Agencies may log on Institute website www.manit.ac.in and CPPP website <u>www.eprocure.gov.in/epublish/app</u> for further details. Tender Document can be downloaded and the duly completed be submitted to the Deputy Registrar (Stores & Purchase) Maulana Azad National Institute of Technology-Bhopal-462003. Last date of submission of complete tender document is 08/10/2025 up

Registrar

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.

## मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल Maulana Azad National Institute of Technology Bhopal

Mautana Azaa National Institute of Technology Bhopai				
एक नजर में महत्वपर्णू जानकारियाँ				
IMPORTANT INFORMATION AT A GLANCE				
निविदा क्रमांक एवं दिनांक	ANIT/EE/20	025/019		
Tender No & Date		17/09/2025		
निविदा का कार्यः	l .		ENDER	
सामग्री / वस्तु का संक्षिप्त विवरण		संख्या टिप्पणी		
Brief Description of Goods/Item	IS	Quantity	Remarks	
Three Phase Dual Converted	r	01 No.	संलग्नक—। पर विस्तृत विवरण	
Based Drive			Detailed Specification at Annexure-I	
निविदा की अनुमानित लागत		Rs. 3,18		
Estimated cost of Tender		13. 5,10	,000.00	
आपूर्ति एवं स्थापना का स्थान		Electrical E	Engineering Department	
Location of Supplies & Installat	ion	at Institute		
निविदा दस्तावेज की उपलब्धता		www.manit.ac.in		
Availability of Tender Documer	nt	www.eprocure.gov.in/epublish/app		
निविदा जमा करने के अंतिम दिनांक एवं स	मय	08/10/2025 up to 12:00 hours		
Last Date & Time of Submission	n of		-	
Tender				
निविदा खुलने की दिनांक एवं समय		08/10/2025	at 15:00 hours	
Date & Time of Opening of Bid	S			
निविदा वैधता की अवधि 60 days from the day			om the date of opening of	
Tender Validity period		the Technical Bid		
वितरण / आपूर्ति की अवधि		04 to 06	weeks from the date of	
Delivery/ Supply period		issue of Su	pply Order	
वारंटी अवधि		Two year	(s) from the date of	
Warranty Period		successful		
,		Commission	ning of equipments/	
		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		

	<del>-}-</del>						
	<u>થા લ</u>	दाता के लिये निर्देश / अनुदेश / INSTRUCTIONS TO BIDDERS					
1	a						
1		of Supplies & Work:					
	a	The Goods/ Items shall be supplied as per the Bill of Quantity and Specifications					
		mentioned in ANNEXURE-I. However higher specification of equipment					
	b	may be considered subject to their cost economics competitiveness.  Bidder should supply illustrated leaflet giving technical details of Goods/ Item					
	U	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					
	C	bid. Bidder should quote the price of only one best & appropriate model of					
		Good/Item available with them.					
	d	Purchase Preference will be given to "Make in India products" as defined in					
	u	Purchase Preference with Local Content (PP-LC) Policy. Accordingly,					
		bidders with Local Content less than or equal to 20% will be treated as "Non					
		Local Supplier". The prescribed LC shall be applicable on the date of Bid					
		opening. The bidder shall submit an undertaking along with the bid stating the					
		bidder meets the mandatory minimum LC requirement and such undertaking					
		shall become a part of the contract. Local content certificate from practicing					
		Cost Accountant or practicing Chartered Accountant giving the percentage of					
		local content shall be acceptable. The local content certificate shall be					
		submitted along with each invoice raised.					
	e	Purchase preference will be given to MSEs as defined in Public Procurement					
		Policy for Micro and Small Enterprises (MSEs). If the bidder wants to avail					
		the Purchase preference, the bidder must be the manufacturer of the offered					
		product in case of bid for supply of goods. Traders are excluded from the					
		purview of Public Procurement Policy for Micro and Small Enterprises. In					
		respect of bid for Services, the bidder must be the Service provider of the					
		offered Service. Relevant documentary evidence in this regard shall be					
		uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15%					
		(Selected by Buyer)of margin of purchase preference /price band defined in					
		relevant policy, such Seller shall be given opportunity to match L-1 price and					
		contract will be awarded for 25%(selected by Buyer) percentage of total					
		QUANTITY.					
	f	Start-ups as recognized by Department for Promotion of Industry and Internal					
		Trade (DPIIT), claiming EMD exemption and relaxation in turnover as					
		prescribed in the certificate / Start Up scheme of DPIIT.					
	g	Bidder may be asked to supply sample of offered product/item before supply					
		in bulk quantities.					
	h	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					
	i	After the supply of Goods/ Items & Accessories as mentioned in the					
		ANNEXURE-I, the bidder has to execute its installation at the designated					
	D.P.	location(s).No extra cost shall be paid for this reason.					
2		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.					

	b	The material shall be	-	-			
		responsible for any dam					
	c	The insurance cover inc					
		incidental to manufactu					
		installation shall be obta	ained by bidder in h	is own name an	nd not in the name of		
		purchases.					
3	Warra	anty & After Sales Services:  The bidder shall offer on-site comprehensive warranty of equipments as					
	a						
		mentioned at IMPORTAN			_		
		location & shall cover	<b>~</b> 1		O I		
		having limited life etc.	=	t hable to pay	any extra charges on		
	1	any account during war		1 '	1 ' 41 4		
	b	The bidder shall ensur		sales services	during the warranty		
4	Til: a: b:	period to the satisfaction	n of purchaser.				
4		lity Criteria:	many/Domanouchin	Firm / Drammiata	my firms / A con avy and		
	a	Bidder should be a Con		-	•		
		operational from at leas registration shall be atta	- · · · · · · · · · · · · · · · · · · ·	as on close da	te of tender. Copy of		
	b	The Bidder must ha		s/ Items in	last three years to		
	U	Central/State government	* *		•		
		company in India. Copi	-	_			
	С	Bidder should have min					
		of tender) in last year .C		`			
	d	The Earnest Money Dep					
	e	Bidder should have GS'	<u>*_</u> *				
	f	OEM Authorization Let	tter				
5	Earnes	st Money Deposit:					
		•					
1	The	bidder is instructe		EMD in	the form of		
	DD/FI	bidder is instructe DR/RTGS/NEFT/BG/Ban	k deposition slip alo	ong with bid to	prove the transfer of		
	DD/FI	bidder is instructe	k deposition slip alo	ong with bid to	prove the transfer of		
	DD/FI	bidder is instructe DR/RTGS/NEFT/BG/Ban	k deposition slip alo	ong with bid to ab mentioned l	prove the transfer of		
	DD/FD paymen	bidder is instructe DR/RTGS/NEFT/BG/Ban at to the purchaser's Account	k deposition slip alo ount as per EMD sl	ong with bid to ab mentioned l	prove the transfer of pelow:		
	DD/FI paymen	bidder is instructe DR/RTGS/NEFT/BG/Ban at to the purchaser's Accommodate Value	k deposition slip ale ount as per EMD sl EMD R	ong with bid to ab mentioned l ate	prove the transfer of pelow:		
	DD/FI paymen	bidder is instructe DR/RTGS/NEFT/BG/Ban at to the purchaser's Acco Tender Value an 2.50 Lakhs on 2.50 lakhs to 25.00	k deposition slip ale ount as per EMD sl EMD R NIL 2% of Tender Valu in nearest in 100 re	ong with bid to ab mentioned late	prove the transfer of pelow:		
	DD/FD payment Less the Between	bidder is instructe DR/RTGS/NEFT/BG/Ban at to the purchaser's Account to the purchaser's Account Tender Value an 2.50 Lakhs on 2.50 lakhs to 25.00  Purchaser's Bank Account DR/RTGS/NEFT/BG/Ban at to the purchaser's Account DR/RTGS/NEFT/BG/Ban at the purchaser's Account DR/RTGS/NEFT/BG/Ban at the purchaser's Bank Account DR/RTGS/NEFT/BG/Bank Account DR/RTGS/NEFT/BG/BAN Account	k deposition slip ale ount as per EMD sl EMD R NIL 2% of Tender Valu in nearest in 100 re ount details:	ong with bid to ab mentioned late e rounded off ipees.	prove the transfer of pelow:  Remarks		
	DD/FD paymen Less th Betwee Lakhs	bidder is instructe DR/RTGS/NEFT/BG/Ban at to the purchaser's Acco Tender Value an 2.50 Lakhs on 2.50 lakhs to 25.00	k deposition slip ale ount as per EMD sl EMD R NIL 2% of Tender Valu in nearest in 100 re	ong with bid to ab mentioned becate the rounded off appees.  Bank A/c	prove the transfer of pelow:		
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	DD/FD paymen Less th Betwee Lakhs	bidder is instructe DR/RTGS/NEFT/BG/Ban at to the purchaser's Account to the purchaser's Account Tender Value an 2.50 Lakhs on 2.50 lakhs to 25.00  Purchaser's Bank Account DR/RTGS/NEFT/BG/Ban at to the purchaser's Account DR/RTGS/NEFT/BG/Ban at the purchaser's Account DR/RTGS/NEFT/BG/Ban at the purchaser's Bank Account DR/RTGS/NEFT/BG/Bank Account DR/RTGS/NEFT/BG/BAN Account	k deposition slip ale ount as per EMD sl EMD R NIL 2% of Tender Valu in nearest in 100 ru ount details: Bank Name	ong with bid to ab mentioned becate the rounded off appees.  Bank A/c	prove the transfer of pelow:  Remarks		
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7	Price 1	Bid				
	a	The Prices should be quoted in Indian Rupees only.				
	b	Purchaser (being a research Institution) is registered with the Department of				
		Scientific & Industrial Research (DSIR) for the purpose of availing custom				
		duty exemption in terms of GoI Notification No. 51/96-Customs dated 23 July				
		1996. The bidder should quote their prices considering the exemption				
		certificate. If any certification needed by bidder, may be given to avail this				
		benefit.				
	c	Bidder shall take into account all costs including unloading at the location of				
		purchaser, cartage etc. for giving delivery of material at site(s) before quoting				
		the rates. In this regard no claim what so ever shall be entertained.				
	d	The bidders are advised not to indicate any separate discount. Discount, if any,				
		should be merged with the quoted unit prices.				
	e	The price quoted in price bid shall be firm but subject to change in rate of				
		applicable taxes if any.				
	f	The Bidder should avoid the use of vague term such as "Extra as applicable".				
		Such offers shall be treated as non-responsive.				
	g	No extra payment shall be paid on account of any discrepancy in nomenclature				
		of items. The bidder shall seek clarifications if any before submitting the				
		tender.				
8	Bid 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 of Three Phase Dual Converter Based				
		Drive." with tender inquiry number and its due date addressed to The Director,				
	Maulana Azad National Institute of Technology- Bhopal- 462003 and mu					
		reach the office of The Deputy Registrar- Stores & Purchase, Maulana Azad				
		<b>National Institute of Technology, Bhopal</b> on or before as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. The sealed Envelop should be				
		-				
	0	consisting of followings:  Copy of Certificate of Registration of firm, GST Number and Income Tax				
	a	PAN.				
	b	Proof of submission of EMD amount				
	c	Copy of Purchase Order (PO) received from government shall be attached.				
	d	Certificate mentioning of Turnover for the last year and OEM authorization				
	u.	letter.				
	e	<b>BOQ</b> Annexure-I and Price <b>Bid</b> Annexure-II duly filled and signed.				
9	•	ation of Bids:				
		estitute may evaluate all the required Goods/Items in this tender together or				
		ndent depending upon nature of items & compatibility and compare the				
	_	ions 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 resp	onses shall be	mad	e in writing.	·
11	Notific	Notification of Award:					
	a	Prior to the expiry of the period of bid validity, the purchaser shall notify the successful bidder, in writing, that its bid has been accepted. The notification letter shall specify the sum that the purchaser will pay to the bidder in consideration of the <i>Supply of Goods/ Items</i> with the details of selected location.					
	b	may	y request in advance	for issuance o	f Pu	rchase/ Contra	your of bidder. Bidder act order in favour of a made to OEM only.
12	Perfor	man	ce Security Deposit:	•			
	The b	idde	r is required to	submit Per	forn	nance Securit	y in the form of
	DD/FD	R/R	TGS/NEFT/BG/Ban	k Deposit after	ins	tallation of ma	aterial along with the
	bill to t	he Ir	nstitute as per slab m	nentioned below	v:		
	Or	der/	Contract Value	PS]	D R	ate	PSD Period
			.50 Lakhs	NIL			Warranty period
		n 2.5	60 lakhs to 25.00	5% of Tender			plus two month
	Lakhs			in nearest in 1	00 rı	ipees.	extra
	a		chaser's Bank Acco				T
		Aco	count Name	Bank Name		Bank A/c	Bank IFS Code
		Dir	ector MANIT Bhopal	State Bank	of	<b>No.</b> 10020150107	SBIN0001608
		DIR	ector MANTI Bilopai	India	OI	10020130107	3D11\0001008
	b	bide		ed for such peri		•	be forfeited and the competent authority
	c	Peri	formance Security s	hall be return	ed t	o the bidder	without any interest,
			atsoever, after comple	etion warranty p	erio	d as specified i	n the tender.
13	Penalt	·					
	a The bidder shall indicate the period within which the ordered quantity will be supplied along with Installation & Commissioning of Goods/ Items. The bidder shall note that in case bidder fails to do so within the period of delivery indicated by the bidder in price bid of this tender, penalty @ 0.50 % on total value of the PO per week of delay would be levied subject to maximum 20 weeks. It means, the bidder shall have the liability of delayed supply to the maximum of 20 weeks after expiry of scheduled delivery date.						
14	Terms	of P	ayment:	•		_	
	a		Payment shall be a allation of Goods/ It		) da	ys by purch	aser after supply and
15	Jurisdi	ictior	n:				
	a			-	gal	matter shall	be subjected to the
16	Dotoile		sdiction of Bhopal co Contact Persons for Q				
		01 C			Б	a : a:	1
Nar			Dr. Giribabu Dy			Dr. Sanjeev Singh	
-	ignatio	n	Associate Profes	ssor		ofessor	
Tel			7206519665			65237795	
Em	Email dgiribabu208@gmail.com sschauhan@manit.ac.in						

## मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल Maulana Azad National Institute of Technology Bhopal

## सामग्री की मात्रा एवं विवरण BILL OF QUANTITY AND SPECIFICATION

SN	Name of Product/ Items	Quantity	Remarks
1	THREE PHASE DUAL CONVERTER BASED DRIVE		
	This set up is used to study the speed control procedure DC motor using SCR based Dual Converter. This set up must consists of  a) Dual Converter Power Module to be operated as both three phase and single phase  b) PWM Controller  c) DC motor Load set up  d) Accessories (Transformer with IGR)	01 No.	
	a. SCR POWER MODULE		
	The power module consists of SCRs for 3 Phase Dual Converter. This power module can be used for DC Motor in open loop speed control application by external PWM controller interfacing  SCR based 3 phase Controlled Dual Converter  12 numbers of SCR, Ratings @ 1200V @ 25A, fixed With proper heat sink for cooling and  Snubber circuit  12 numbers of Pulse amplifier & 1:1 Pulse transformer for pulses isolation  One number of 3 Phase 230/9V supply synchronizing transformer & ZCD Circuit is required for SCR Pulse generation  MCB for input power ON/OFF  SCR outputs and AC inputs are terminated in banana connector for waveform.  Specifications- Input- 0-415VAC, Output – 0-200V AC/DC @ 10A  B. PWM CONTROLLER  High-Performance DIGITAL controller with Internal Flash Program Memory  12 Numbers of PWM Outputs up to 15KHZ of switching frequency  Internal EEPROM &Five 16-bit Timers  Power, Programming and Test LED's  2MB PROM & 24 Mhz clock speed  QEP Sensor /Hall sensor/Speed sensor(Proximity)Interface connector on front panel  PWM increment & decrement key &Reset switch is provided  20 X 4 LCD screen &PWM outputs are terminated by Front panel Connector		
	230VA INPUT with Power ON/OFF switch  On the Control of the C		
	C. PMDC MOTOR WITH LOAD SET UP  Type : PMDC Motor		
<u></u>	• Type : PMDC Motor		

D. 3 PHASE TRANSFORMER WITH IGR	
• Two number of 230/48V Vac @10A step down transformer is required.	
<ul> <li>3 number of IGR-3A (Inter group reactor) is required - with different tapings</li> </ul>	
Field supply (48V@10A) is required for motor Field excitation.	
Delivery upto Power Electronics Lab, EE Dept. MANIT Bhopal	
Warranty: Minimum two year	
NB: Drawing/ Design is enclosed herewith.	
We confirm with our acceptance to the technical specification as given above.	

One number Brake DRUM with spring balance set up is coupled with

Two numbers of dial indication (0-10KG) for Load measurement in

100/150W

1500/3000 RPM Proximity sensor

Spring balance loading

BIDDER'S NAME & SIGNATURE

WITH SEAL

48V

**Power** 

Voltage

Loading

**Spring balance loading** 

Kg

Date:

Feedback sensor

the above motor

**Speed** 

						ANNEXURE- II
	FORMA	T FOR SUBM	<b>IITTION</b>	OF BID P	RICE	
To,						
The	Director					
MA	NIT- Bhopal- 462 003					
	•		•			
Sub:	Tender Document	dated 00/00/20	25			
SN	Product Description with	Discounted	Qty	Qty	GST	Total Price
	make & Model	unit price		Price		
1	2	3	4	5	6	7(5+6)
	Three Phase Dual		01			
1	Converter Based		No.			
1	Drive					
			1 1	Total o	offered Price	
Tota	ıl (In Words):					
Deli	very Period required:					
	-					
The	followings things are confirm	med and under	rtake by	us that:		
a	The price quoted above	e are inclusive of	of statuto	y Levies & '	Taxes, Duties	s, Transportation and
	other charges (Insurance	ce, Loading/ u	nloading,	Packing &	Forwarding	charges, Installation
	etc.) at site.		_			
b	Taxes are subject to ch	ange/ revision.				
c			ns specific	ed in "Instru	ctions to Bide	ders" and if selected,
	the execution of supplie	es would be ma	de as per	bill of Quar	ntity & Specif	fication.
Date	<b>7.</b>				Signature	f Authorized Bidder
Dale	<b>-</b> .				•	proper rubber stamp
		Name:			WIIII	proper rubber stamp
		Designation:				
		Mobile No:				
1		I MICHIE NO.				