मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान भोपाल Maulana Azad National Institute of Technology Bhopal (भारत सरकार, शिक्षा मंत्रालय के अधीन राष्ट्रीय महत्व का संस्थान)

(नारत सरकार, रिक्वा नेत्रालय के जवान राष्ट्रीय नहत्व का संस्थान)

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



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निविदा	आमत्रण	सत्तना
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NOTICE INVITING QUOTATION

सामग्री / वस्तु का नाम Name of Goods/Items Four Quadrant Chopper Fed DC Drive

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

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मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल					
Maulana Azad National Institute of Technology Bhopal					
अधीन राष्ट्रीय महत्व का संस्थान)					
ance under MoE, Govt. of India)					
दिनांक / Date:17/09/2025					
त्रण सूचना					
G QUOTATION					
t Chopper Fed DC Drive					
उपरोक्त सामग्री / वस्तु की आपूर्ति के लिए निविदाएँ आमंत्रित की जाती हैं। इच्छुक निर्माता / अधिकृत भागीदार / एंजेन्सियाँ, अपनी बोली अंकित करें। निविदा दस्तावेज विधिवत रूप से भरकर विभागाध्यक्ष— इलेक्ट्रिकल इंजीनियरिंग विभाग में जमा की जा सकती है। सम्पूर्ण निविदा मय दस्तावेज प्रस्तुत करने की अंतिम तिथि 08/10/2025 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 सुरक्षित है।					
कुलसचिव					
e mentioned Goods/Items in the Institute. rtner/Agencies may quote their price. to the Head of Department Electrical otation document is 08/10/2025 up to reserves the right to accept or reject any hout assigning any reason whatsoever. Registrar					

Registrar

मौलाना आज़ाद राष्ट्रीय प्रौद्योगिकी संस्थान, भोपाल						
Maulana Azad National Institute of Technology Bhopal						
एक नजर में मह	त्वपर्रू जानकारि	रेयॉ				
IMPORTANT INFORM	IATION AT	A GLANCE				
सामग्री / वस्तु का संक्षिप्त विवरण	संख्या	टिप्पणी				
Brief Description of Goods/Items	Quantity	Remarks				
	01 N.	संलग्नक–। पर विस्तृत विवरण Detailed Specification				
Four Quadrant Chopper Fed DC	01 No.	at Annexure-I				
Drive		W 1 2222 1 2 2				
निविदा की अनुमानित लागत	Rs. 2,36,0	00.00				
Estimated cost of Quotation	, ,					
आपूर्ति एवं स्थापना का स्थान	Electrical E	ngineering				
Location of Supplies & Installation	at Institute					
निविदा दस्तावेज की उपलब्धता	<u>.ac.in</u>					
Availability of Quotation Document	www.eprocure.gov.in/epublish/app					
निविदा जमा करने के अंतिम दिनांक एवं समय	08/10/2025 up to 12:00 hours					
Last Date & Time of Submission of	00/10/2020	ap to 120 00 mount				
Quotation						
निविदा खुलने की दिनांक एवं समय 08/10/2025 at 15:00 hours						
Date & Time of Opening of quotation						
निविदा वैधता की अवधि	60 days fro	m the date of opening of the				
Quotation Validity period	Technical B					
वितरण / आपूर्ति की अवधि	04 to 06 we	eks from the date of issue of				
Delivery/ Supply period	Supply Orde	er				
शास्ति खंड						
Penalty Clause 0.5% of value of the order per week						
वारंटी अवधि Two year (s) from the date of successfu						
Warranty Period SITC of equipment/ item						
बोली सुरक्षा / बयाना राशि NIL						
Bid Security/ EMD						
निष्पादन सुरक्षा राशि NIL						
Performance Security Amount						

बोलीदाता के लिये निर्देश / अनुदेश / INSTRUCTIONS TO BIDDERS					
	T				
1	Scope of	of Supplies & Work:			
	a	Bidders are advised to inspect and examine the site and its surroundings and			
		satisfy themselves before submitting their quotations 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 quotation. 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			
	b	It will be imperative on each bidder to fully acquaint himself with the site			
		conditions and factors which would have any effect on the performance of the			
		contract and / or the cost.			
	С	The Goods/ Items shall be supplied as per the Bill of Quantity and Specifications			
		mentioned in ANNEXURE-I. However higher specification of equipment may be			
		considered subject to their cost economics competitiveness.			
	d	Bidder should supply illustrated leaflet giving technical details of Goods/ Item and			
		attach the same with the quotation to facilitate evaluation.			
	e	Bidder should quote the price of only one best & appropriate model of Goods/Item			
		available with them.			
	f	Purchase Preference will be given to "Make in India products" as defined in			
		Purchase Preference with Local Content (PP-LC) Policy.			
	g	Purchase preference will be given to MSEs as defined in Public Procurement			
	_	Policy for Micro and Small Enterprises (MSEs).			
	h	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.			
	i	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.			
	j	After the supply of Goods/ Items & Accessories as mentioned in the			
		ANNEXURE-I, the bidder has to execute its installation at the designated			
	D 11	location(s).No extra cost shall be paid for this reason.			
2	Deliver	y of Supplies & Installation:			
	a	The purchaser interested for complete delivery of Goods/items along with			
		Installation, Testing and Commissioning 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.			
3		nty & After Sales Services:			
	a	The bidder shall offer on-site comprehensive warranty of equipments as mentioned			
		at IMPORTANT INFORMATION AT GLANCE sheet at the designated location &			
		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			
	h	warranty period. The hidder shall ensure to render after sales services during the warranty period to			
	b	The bidder shall ensure to render after sales services during the warranty period to			
		the satisfaction of purchaser.			

	c	The performance security as mentioned at IMPORTANT INFORMATION AT							
		GLANCE sheet is required in favour of Institute for the warrantee period plus sixty							
		days extra.							
4	Eligibility Criteria:								
	a	Bidder should have registered with appropriate Authority and having GST							
		Number.							
5	Price B								
	a	The Prices should be quoted in Indian Rupees only.							
	b	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.							
	c	The bidders are advised not to indicate any separate discount. Discount, if any,							
		should be merged with the quoted unit prices.							
	d	The price quoted in price bid shall be firm but subject to change in rate of							
		applicable taxes if any.							
	e	The Bidder should avoid the use of vague term such as "Extra as applicable".							
		Such offers shall be treated as non-responsive.							
6	Bid Su	bmission:							
	a	The quotation must be placed in a properly sealed envelope super-scribed							
		"Quotation for the Supply of Four Quadrant Chopper Fed DC Drive." with							
		quotation 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 HoD- Department Electrical Engineering, Maulana Azad National Institute							
		of Technology, Bhopal 462003 on or before as mentioned at IMPORTANT INFORMATION AT GLANCE sheet. The sealed Envelop should be consisting of							
		followings:							
	b	Copy of Certificate of Registration of firm.							
	c	BOQ Annexure-I and Price Bid Annexure-II duly filled and signed.							
7		tion of Bids:							
'		stitute 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.							
		Commit to the terms of conditions, and technical specifications.							

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

सामग्री की मात्रा एवं विवरण BILL OF QUANTITY AND SPECIFICATION

	Name of P		Items	Quantity	Remarks
_	· Quadrant Chopper Fed DC	01	Remarks		
This a) b) c)	No.				
	GA Spartan6 controller: oard Features: Processor speed 20 MHZ 100 output lines / inputs lines are Isolated serial communication into 4MB PROM for code execution in External JTAG header for prograt 20x4 (or 16x2) LCD interface hea 8 user LEDs/4 position user DIP is 2 up & down input push switch Up to 100 Individually Programm ADC No of ADC input Resolution Sampling rate Analog input range	erface the nemory. mming ader. switch	nrough USB connector		
b) F(Buffer section for voltage Connectors 5 pin header for ADC inpose 16 pin header for PWM Control Programming header for PWM Control PWM	out DUTPUT eader DWER (: : : mikron buit to for VM Am legative	CIRCUIT 1PH 230V AC OR 300V DC 0-220V VARIABLE DC 1KW based IGBT with driver circuit with rm power circuit applifier & 4 no's of SKYPER32 R Turn off protection required.		

- One No. of 2200microfarad/450v dc link capacitor.
- Two No's of hall-effect current sensor used to sense the dc link current & Armature current
- Over Current Protection.
- All I/P and O/P connectors to be terminated in front panel
- PWM and Current signals are to be terminated with test points in the front panel for observing waveforms using Scope.

c) PMDC MOTOR WITH SPRING BALANCE LOAD SETUP:

POWER : 1HP
 VOLTAGE : 180V
 CURRENT : 5A

• SPEED : 1500 RPM

- Ono no of Proximity sensor to sense the speed of the motor
- One no spring balance load setup will be used

NOTE:

- ➤ MACHINE PARAMERTS TO BE MENTIONED
- > FORWARD MOTORING & REVERSE MOTORING
- ➤ BRAKING CAN BE DONE

Delivery upto Power Electronics Lab, EE Dept. MANIT Bhopal

Warranty: Minimum two year

NB: Drawing/ Design is enclosed herewith.

	ANNEXURE- II						
		BID PR	ICE FOR	MAT			
To,							
	Director						
MA	NIT- Bhopal- 462 003						
Sub:	Enquiry Document	dated//20	025.				
SN	Product Description	Unit price	Qty	Qty	GST	Total Price	
	with make & Model			Price			
1	2	3	4	5	6	7(5+6)	
	Four Quadrant		01				
1	Chopper Fed		No.				
	DC Drive						
	DC Drive						
				Total off	ered Price		
Tota	l (In Words):						
Deliv	very Period required:						
The	followings things are conf	irmed and und	lertake by	us that:			
a	The price quoted above				Caxes, Duties	s, Transportation	
	and other charges (In			•			
	Installation etc.) at site.	,	C	υ,	C	6 6 7	
b	Taxes are subject to cha	nge/ revision.					
С	We agree with the term		ions spec	rified in "Inst	tructions to	Bidders" and if	
	selected, the execution of						
Date	:			Sig	gnature of A	uthorized Bidder	
					with pro	per rubber stamp	
		Name:					
		Designation:	•				
Mobile No:							