Maulana Azad National Institute of Technology Bhopal- 462 003

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



LIMITED TENDER ENQUIRY FOR

SUPPLY OF GOODS/ITEMS IN LAB EQUIPMENT

Website www.manit.ac.in Fax No: 0755-2670562

Email Address: <u>info@manit.ac.in</u> Telephone No: 0755-4051000, 0755-4052000

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No. MANIT/S&P/MME/2020:12

NOTICE INVITING TENDERS

Sub: Supply of Goods/ Items in Lab Equipments.

Tenders are invited for *Supply Goods/Items in Lab Equipment*. 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 Assistant Registrar, Stores & Purchase, Maulana Azad National Institute of Technology- Bhopal- 462 003.

Last date of receipt of complete tender document is 09/12/2020 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

Date: 19/11/2020

Maulana Azad National Institute of Technology Bhopal- 462 003

IMPORTANT INFORMATION AT A GLANCE				
Tender No & Date	No. MANIT/ S&P/ MME/2020:12			
	Date: 19/11/2020			
SCOPE (OF TENDER			
Brief Description of Goods/Items	Quantity Remarks			
MIG welding machine with Pulse an super pulse	nd 01 Detailed Specification at Annexure-I			
Estimated cost of Tender	Rs. 2,50,000.00			
Location of Supplies & Installation	Materials and Metallurgical			
	Engineering department at Institute			

TENDER DOCUMENT				
Tender Document can be downloaded free of cost				
	om			
Institute website www.mar	and CPPP website			
www.eprocure.go	ov.in/epublish/app			
Last Date & Time	09/12/2020 up to 12:00 hours			
of Submission of Tender				
Date & Time	10/12/2020 at 15:00 hours			
of Opening of Bids				
Expected Delivery Period	Four weeks from issuance of order			
Details of Contact Pe	rsons for Query if any			
Name: Mr. Rakesh Singh Name: Dr. Ramkishor Anant				
Designation : Junior Assistant	Designation: Assistant Professor			
Tel No: 07554051808	Tel No: 07554052371			
Email: rakesh_singh18@rediffmail.com				

	INSTRUCTIONS TO BIDDERS					
-		INSTRUCTIONS TO DIDDERS				
1	Scope 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 may be				
	b	considered subject to their cost economics competitiveness. Bidder should supply illustrated leaflet giving technical details of Goods/ Item and attach the same with the tender to facilitate evaluation.				
c Bidder should quote the price of only one best & appropriate model o available with them.						
	d Bidder should quote preferably other than made in China items as mention the Bill of Quantity due to current relation between India & China. Certificatorigin shall also be submitted along with the bid.					
	e	Where ISI certification marked goods are available in market, procurement should generally be limited to goods with those or equivalent marking only. The warranty/AMC required must be specified				
	f	After the supply of Goods/ Items & Accessories as mentioned in the ANNEXURE-I , 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 Goods/items along with Installation by bidder within stipulated time limit.				
	b	The material shall be inspected on receipt at site and bidder shall be responsible for any damage during the transit of Goods/Items.				
	С	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.				
3	Warra	nty & After Sales Services:				
	a	The bidder shall offer on-site comprehensive warranty of Good/Items for 01 (one) year from the date of successful commissioning of goods at the designated location & shall cover each and every part of the goods including parts having limited life etc. The purchaser is not liable to pay any extra charges on any account during warranty period.				
	b	The bidder shall ensure to render after sales services during the warranty period to the satisfaction of purchaser.				
	С	The performance Bank Guarantee 10% of the basic value is required for the warrantee period.				
4	Eligibi	lity Criteria:				
	a	Bidder should have registered with appropriate Authority.				
	b	Bidder should have minimum annual turnover (Double value of estimated cost of tender) in last year .CA certification in this regard is to be submitted.				
	С	Bidder should have GST Number & Income PAN both.				
	d	OEM Authorization Letter				
	e	Reference Order of similar equipments must be provided.				

	f	ISO Certificate should be attached along with the Tender Document.				
5	Amendment of Tender Document:					
	a	At any time prior to the date submission of bids, the purchaser, may, for any reason, whether at its own initiative or in response to a clarification sought by a prospective bidder, amend bid document by issuing corrigendum. The corrigendum will be notified/ published in e-tendering website www.eprocure.gov.in/epublish/app and Institute website only.				
6	Price I	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	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.				
	d	Bidder shall take into account all costs including unloading at the location of purchaser, cartage etc. for giving delivery of material at site(s) before quoting the rates. In this regard no claim what so ever shall be entertained.				
	e	The bidders are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted unit prices.				
	f	The price quoted in price bid shall be firm but subject to change in rate of applicable taxes if any.				
	g	The Bidder should avoid the use of vague term such as "Extra as applicable". Such offers shall be treated as non-responsive.				
	h	No extra payment shall be paid on account of any discrepancy in nomenclature of items. The bidder shall seek clarifications if any before submitting the tender.				
7	Bid Su	bmission:				
		The tender must be placed in a properly sealed envelope super-scribed "Tender				
		for the Supply of Lab equipment - MIG welding machine with Pulse and				
		super pulse" 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 Assistant 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	Certificate mentioning of Turnover for the last year and OEM authorization letter.
	С	BOQ Annexure-I and Price Bid Annexure-II duly filled and signed.
8	Evalua	tion of Bids:
		stitute shall evaluate all the items together or separately depending upon nature of
		of circumstance and compare the quotations determined to be substantially
	respons	sive i.e. which
	a	are properly signed;
	b	Confirm to the eligibility criteria of the vendor; and
	С	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).
	е	All the items will be evaluated independently
9		v of Tender:
	a	The tender shall be valid for a period of 60 days from the date of opening of the
		bid of tender. Terms and financial details submitted in the bid shall be treated as
		firm during the 60 days period.
	b	In exceptional circumstances, prior to the expiry of the bid validity period, the
		purchaser may request bidders to extend the period of validity of their bids. The
		request and the responses shall be made in writing.
10	Notific	ation 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 Supply of Goods/ Items with the details of selected location.
11	Penalty	y Clause:
	a	The bidder shall indicate the period within which the ordered quantity will be
		supplied along with Installation & Commissioning of Goods/ Items. The bidder
		shall note that in case bidder fails to do so within the period of delivery indicated
		by the bidder in bid of this tender, penalty @ 01% of value of the order per week
		of delay would be levied subject to maximum 10 weeks. It means, the bidder shall
		have the liability of delayed supply to the maximum of 10 weeks after expiry of
		scheduled delivery date.
12	Terms	of Payment:
	a	The Payment shall be made within 30 days by purchaser after supply and
		installation of Goods/ Items.
	b	The payment of AMC shall be staggered over the period of AMC and be made at
10		the end of each Quarter.
13	Jurisdi	
	a	In the event of any dispute the legal matter shall be subjected to the jurisdiction of
		Bhopal court only.

ANNEXURE-I

Maulana Azad National Institute of Technology Bhopal- 462 003

BILL OF QUANTITY Technical Specification

	Technical Specification			Remark
ſ				S
	MIG welding machir super p	01		
	super p			
	SPECIFICATION			
	Parameters	Specifications		
	Mains Supply Voltage, VAC	380 –460		
	Phase, frequency of mains supply	Phase, frequency of mains supply 3, 50/60		
	Input power, KVA (MMA, MIG/MAG)	19.4		
	No load power, W (energy save mode)	40		
	Power source	Based on CAN-bus communication system for improved communication and minimization of the cables		
	Characteristics	CC-CV		
	Current range,A (MIG/MAG, MMA)	20 –400		
	Output at 35% duty cycle, A			
	Output at 60% duty cycle, A	400		
	Output at 100% duty cycle, A	300		
	Open circuit voltage, V	55		
	Power factor at full load (max)	0.94		
	Efficiency at full load(max)	88%		

IP 23 H S (IEC/EN 60974) -1-2-10
S
(IEC/EN 60974) -1-2-10
(IEC/EN 60974) -1-2-10
610 x 256 x 445
46
4-Roll Drive
0.8 to 25
0.6 to 2.4mm
5, 10, 15 / 35
Pulse with Synergy ON–choice of finer adjustment of predefined synergic line parameters.
Pulse with Synergy OFF— customize process variables for any type of MIG/MAG welding application
1. Pulse/shortarc- for Typical Applications -Root pass -Al / SS up to 3.0mm -MIG/MAG brazing 2. Spray arc/ pulse For Typical Applications -High productivity -Al welding > 6mm 3.Pulse/pulse

Single knob control	voltage.
Control Panel	230 pre-defined synergic lines
	User-defined synergic lines
	Edit/ Delete of synergic lines
Welding Data management Platform	 Should be secure, robust and scalable welding data management platform. Providing insights to facilitate continuous improvement in welding operations by efficiently tracking key parameters for each weld seam produced.
Data Management	 Control panel should have in-built non-destructible job memory to store welding parameters. Should have USB port to transfer welding data to /from computer. Should have 255 Job Memories
Data Transfer	Near-real-time data transfer with wireless or wired transmission to capture welding and system condition data concurrently from multiple systems
Data Storage	Secured storage of data in one comprehensive database, located within user's firewalls
Security	Optimal security from all angles: data storage, access, user control and remote diagnostics
MQTT	Open-source messaging, MQTT protocol and the latest machine-to-machine (M2M) applications for enhanced reliability

Communication	Bi-directional communication between computer and the system to access procedures and schedules, verify operator qualifications, consumables usage and confirm machine setup
Data Sharing	Data can be shared and analyzed across multiple data collection sites from any computer, tablet or smart phone connected to the same internal network as the welding systems and database.
True Arc Voltage	 Ensures welding voltage set at the control panel is delivered at torch tip even with Varying interconnection/torch lengths Replacement of worn-
	 out torch/ torch parts New Weld Parameters from other machines (compensates for changes in interconnection/torch)

MACHINE SHOULD HAVE FOLOWING INBUILT FEATURES.

- Power source should_IGBT based multi-process (CC/CV) power source
- Machine should have Pulse and Super Pulse
- Q Set TM
- True Arc Voltage System TM
- Synergic Lines pre-set and user-defined
- Pulse MIG/MAG welding allows the user to control metal transfer modes with controlled heat input.
- Predefined pulse synergic lines reduce the set uptime further along with delivering the optimum output
- Logic Pump ELP
- Mechanized and Robotic Interface
- Data management
- Controlled heat input for metal transfer
- Minimized distortion, esp for thin sheets
- Enhanced penetration on thick plate

- Improved performance on profiles, where stick-out varies during both manual and mechanised welding
- Single knob control
- Constant arc power independent of the stick out changes
- Mig Torch deliver the set voltage at the torch tip independent of the length of feeder interconnection, return cable and torch.
- Voltage SystemT ensures welding voltage set at the control panel is delivered at torch tip even with
 - -Varying interconnection/ torch lengths
 - -Replacement of worn-out torch/torch parts
 - -New Weld Parameters from other machines (compensates for changes in

Inter connection/torch)

- Cooling fan is switched ON only when the power source attains a
 particular Temperature and the fan is switched OFF when the
 power source cools down, this saves energy and thereby operating
 cost.
- The power sources to switch on the cooling water pump only when a water cooled MIG torch is connected, pump does not start when an air-cooled torch is connected, this not only saves energy but also enhances the operational life of the components for efficient usage.
- Synergic lines should offer pre-defined Voltage (V) ~Current(I) characteristics (curves) for a specific set of wire (type & diameter) and shielding gas combination. After selecting a specific wire and shielding gas combination the wirefeed speed needs to be set by the user, required welding voltage corresponding to the wire feed speed is automatically set by the machine.
- High feed speed: 0.8 25 m/min
- All 4-rolls geared and grooved for smooth feeding

NB: Drawing/ Design is enclosed herewith.

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

^{**} Quoted Specifications should be available on the company's website, merely coping tender specs may lead to rejections.

						ANNEXURE- II
	FOR	MAT FOR SUBN	MITTIO	N OF BID I	PRICE	
To,						
	Director					
MAI	NIT- Bhopal- 462 003					
G 1	D ' D' 1 ' 1 C	. T. 1 D.		NT	1 . 1	
Sub:	Price Bid with refere	nce to Tender D	ocument	No:	dated	
SN	Product Description	Discounted	Qty	Qty	GST	Total Price
SIN	with make & Model	unit price	Qty	Price	USI	Total Trice
	with make & wioder	unit price		Tilee		
1	2	3	4	5	6	7(5+6)
				FF 1 66	1.5.	
TD -	1 / T TTT 1 \			Total offe	red Price	
Tota	l (In Words)					
	followings things are conf					
a	The price quoted above					
			services (including Insurance, Loading/ unloading, Packing & llation etc.) at site			
h	Forwarding charges, Ins		site.			
b	Taxes are subject to cha Offer price shall be val		of 60 dox	va from the	dota of o	maning of hid of this
С	tender.	id for a period (or 60 da	ys mom un	date of o	pennig of bld of this
d	We will be agreed to o	offer services fo	or on-site	comprehe	encive war	ranty on the Goods/
u	Items supplied through			_	msive wai	ranty on the Goods/
e	We agree with the terr		· / •		nstructions	s to Bidders" and if
	selected, the execution of					, to Bladels and II
				····		
			•	ure of Authorized Bidder		
					with	proper rubber stamp
		Name:				
		Designation:				
		Mobile No:				