



Mahatma Gandhi University, Kerala

Tender No: 18/Out-Tend/IIUCNN/2018-2019

Dated: 10 /12/2018

NOTICE INVITING TENDER

Tender No: 18/Out-Tend/IIUCNN/2018-2019

The Registrar, Mahatma Gandhi University, Kottayam invites online bid (technical and financial bid) for Supply and Installation of the Scientific Equipment **ELECTROSPINNING UNIT** from reputed firms. The period of the tender is 180 days from the date of tender.

1	Name of the scientific equipment	ELECTROSPINNING UNIT
2	Earnest money deposit (EMD)	Rs.16,000/-
3	Tender submission fee	Rs.2400/- + GST
4	Period of supply and installation	Within 60 days
5	Mode of submission of Bid	Online
6	Tender Documents	Can be downloaded from the website www.etenders.kerala.gov.in
7	Last date and Time of submission of tender by online	24.12.2018 4.00pm
9	Date and time of opening of technical bid	27.12.2018 12.00 pm

General tender documents and tender schedule can be downloaded in A₄ plain size paper free of cost from the website www.etenders.kerala.gov.in. Documents to be submitted along with bid through online.

Sl.No	Through online
1	Scanned copy of valid registration certificate/dealership certificate
2	Scanned copy of duly filled e-payment form
3	Scanned copy of other certificates required, if any, for tender acceptance
4	Scanned Copy of duly filled preliminary Agreement in stamp paper of Rs.200/-
5	BOQ

SPECIAL CONDITIONS

1. Onsite training has to be arranged by the vendor. Training should include operation, software applications, analysis, handling and maintenance of system.
2. List of your customers using the instrument with the above mentioned specifications should be given.
3. Laboratory floor space, electrical power requirements, earthing, room temperature/humidity requirements etc. should be mentioned appropriately.
4. Complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (soft copies).
5. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The bids shall be opened at the date and time specified. Further details can be had from the office of **The Director, International and Inter University Centre for Nanoscience and Nanotechnology (IIUCNN), Mahatma Gandhi University, Kottayam, Kerala-686560** on all working days during working hours . Detailed enquiries can be had from **Dr. Nandakumar Kalarikkal** [Tel:0481,2731669 \(Office\)](tel:04812731669), [7907478110\(Mobile\)](tel:7907478110) E-mail:<nkkalarikkal@mgu.ac.in>, <cnnmgu@gmail.com>

TERMS AND CONDITIONS

1. The quoted price should be inclusive of all taxes/freight/installation charges, etc.
2. Customs/Excise Duty Exempted price should also be quoted
3. The quotation should have at least Three Months validity
4. Brand name of the equipments should be mentioned and Brochure to be enclosed
5. Warranty conditions, details of the nearest servicing centers, user reference, necessary supporting catalogues and demonstration should be provided.
6. The right to accept or reject quotes without assigning any reason rests entirely with the undersigned
7. If the product has a Valid DGS & D rate contract, it may be quoted
8. If the date of receipt and opening of quotation is declared a holiday, the next working day shall be the last day for the purpose.
9. At least two users should be trained by the application engineers during the time of installation.

The bidders are advised to submit their bid well in advance to avoid any kind of network issues. The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

Registrar



Mahatma Gandhi University, Kerala

ELECTROSPINNING MACHINE

SPECIFICATIONS

Parameters		Specification	Upgrade Features
Operation Type		PLC Operation Touch Screen Controls	4" – 7" Touch Panel
Spinning position		Vertical	Horizontal
High Voltage Power Supply		2kV – 30kV	2kV – 40kV
High Voltage Control		Potentiometer Control	-
Syringe Pump	Pumping system	Infusion (motor control for precise flow)	-
	No. of infusion pump	1+1 (Coaxial); with independent control	1+1+1 (tri-axial)
	Fluidic control	0.1ml/hour to 200ml/hour	-
	Syringe size	2ml / 5ml / 10ml	-
Movements	Spinneret	X-axis (motorized control)	-
	Spinneret to Collector	Y-axis (manual control) 50mm - 200mm	Motorized control
	Plate Collector	Z-axis (motorized control)	-
Plate Collector	Dimension	200mm x 200mm [length x width]	Customized Dimension with heater

	Material	Stainless Steel (SS 316)	-
	Movement	Z-axis (motorized control)	-
Drum Collector	Dimension	100mm x 200mm [diameter x width]	Customized Dimension
	Material	Stainless Steel (SS 316)	-
	Rotational Speed	50rpm - 3000rpm	50rpm – 5000rpm
Cabin Heater	0 ⁰ C to 45 ⁰ C	Temperature Control with digital display	0 ⁰ C to 60 ⁰ C
Chamber features	Illumination light	To view and arrange the spinning chamber for progression	-
	Soft light	Nano fibre visualization through naked eye	UV Light Sodium Light
	Exhaust fan	Provided for solvent vaporization	High Speed

	Parameters	Specification	Upgrade Features
Safety	Static discharge stick	High voltage discharge stick	-
	Door sensor	High voltage cut off with alarm	-
	Emergency stop switch	Complete shutdown of the entire system	-
	High voltage short circuit protection	Internal short circuit protection with alarm	-

	Dust proof	Polycarbonate safety cover for bacterial free output sample	-
	Pilot Lamp	Pilot Lamp & Buzzer for HV indication	-
Dehumidifier	Minimum temperature	18°C	-
	Maximum temperature	52°C	-
	Measurement accuracy	relative humidity °C (0°C to 80°C)	-
Input power	Single phase	230V AC, 50Hz	-
Structure	Metallic profile	Transparent glass door for monitoring electro spinning process.	Side Panel Glass
Storage temperature		Suitable for all environment	-
Weight		300 kg (approx.)	-

Key Acme

1. Interchangeable provision for mandrel collectors
 - a. Drum
 - b. Disk
 - c. Grid wheel
2. Ease of service facilities with swappable control units
3. Easy Touch Controls
4. Customized Infusion Pump with independent flow rate settings
5. High Voltage Protection with pilot lamp & buzzer indication

Accessories			
1.	Plastic Syringe (2ml/5ml/10ml)	:	5 nos. each
2.	Syringe Side Connector	:	2 meter
3.	Needle Side Connector	:	5 meter
4.	Single Metal Spinneret	:	5 nos.
5.	Co-Axial Metal Spinneret	:	1 no.

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