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Enquiry No. TIET/CS/HB/22-23/220167

Date : May 20, 2022

Sub: Request for Quotation(s) for the Electrospinning Apparatus

Dear Sir

We shall be grateful if you kindly let us have your lowest **quotations** for the following materials. THE QUOTATIONS SHOULD REACH THE UNDERSIGNED **LATEST BY May 31, 2022** @ **11:00** Am through **courier or e-mail** accompanied by appropriate illustrative literature/catalogues/pamphlets/technical details, samples and specifications as the case may be. **On the quotation envelope/ subject the Enquiry Number & Date should be mentioned on the top of the Envelope/mail subject.**

Sr. No.	Item Name	Qty.
1.0	Setup for electrospinning fabrication with regulated high voltage	1
	generator and syringe pump (Specifications as per Annexure I)	

The offer sent by you must furnish the following details:

- 1. Name, Make & specifications of each item.
- 2. Price Breakup itemwise with MRP. (Treat it mandatory)
- 3. Educational discount if any.
- 4. Validity of quotation should be at least 60 Days.
- 5. **GST** %

- 6. Delivery FOR Central Stores TIET, Patiala
- 7. Insurance, Freight & other charges if any.
- 8. Minimum Delivery Period.
- 9. Payment terms. Net 30 days against delivery & satisfactory installation at Thapar Institute.
- 10. Guarantee / Warranty Information.
 - 11. Also please share your Companies Turnover and Market Share along with the offer.

Regards,

Head Commercial

Specifications for Electrospinning Apparatus:

Item	Features required	
Spinning Arrangement	Horizontal Spinning Vertical Spinning Solvent collector Spinning	
High Voltage power supply Specifications:	Variable from 0 to 40KV, Max Current 0.4mA (controllable) With DIGITAL voltmeter and milli ammeter Accuracy 2% Static Removal Device Shorting Stick to remove residual charges Line Regulation: < 0.05% for +/- 10% variation in input voltage Load Regulation: <0.05% for 10 to 100% Load Variation Protection against Overload & short circuit Short circuit protection	
Syringe pump with two channels	 To dispense from 1 no. Standard Syringes 2,5 & 10 ml Fabricated using insulated material and minimal metallic components to work under high voltage conditions and to avoid electric field distortions around the unit Motor control through programmable micro controller to control and indicate flow rate & syringe type. Panel Mounted Control. Minimum Dead Volume 0.4ml Syringe volume 2,5,10 and 20ml Flow rates 0.05ml/hr to 100ml/hr (controllable) Standard needles can be fitted to syringes. Direct syringe based spinning no tubing is required. 	
Collector	Stationary collector Drum collector Adjustable speed of rotating drum (200 to 5000 RPM) Fibre alignment	
Spinneret	Multi-nozzle Single Nozzle Four nozzle spinning High throughput fibre fabrication	
Linear Stage Switch Automated Easy distance adjustment between collector during operations	 X axis control (Auto switch) Y axis control (Auto switch) Z axis manual control 	
Control panel	Temperature and Humidity indicator Main emergency stop button Speed controller ON/OFF button	