



DEPARTMENT OF BIOTECHNOLOGY
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Date: 11.04.2019

Ref: BT/TSCH/2019/002/SPL

Dt. 11.04.19

Due Dt. 01.05.19

1. Quotations are invited in duplicate for the various items shown below/overleaf/ enclosed list.
2. The quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
6. **Local Firms:** Quotations should be for free delivery to this Institute. If quotations are for Ex-Godown, delivery charges should be indicated separately.
7. **Firms outside Chennai:** Quotations should be for F.O.R Chennai. If F.O.R. Consigner stationer freight charges by passenger train/lorry transport must be indicated. If Ex-Godown, Packing, forwarding and freight charges must be indicated.
8. The rates of Sales/General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales/General Taxes will be admitted at any stage and on any ground whatsoever. **The taxes leviable should take into consideration that we are entitled to have concessional sales tax applicable to non-government educational institutions run with no profit motive for which a Concession. Sales tax certificates will be issued at the time of final settlement of the bill.**
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

Specification for Basic Electrospinning Unit :

- 1 High Voltage Power Supply (a) Variable from 0 to 40KV Max Current 0.4mA
b) With DIGITAL voltmeter & Microammeter for voltage and current display.
c) Static Removal Device Shorting Stick

2. Syringe Dispenser

Syringe Pump 1 - Motor control thro' 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;

Flow rate dependent on syringe type ; Motor torque 2kgcm ; Standard needles can be fitted to syringes;

Direct syringe based spinning no tubing

Syringe Pump 2 - specifications same as Pump 1

Two pumps for spinning Core-Sheath (Co-Axial)

3. Spinning Arrangement - Horizontal & Vertical Arrangement

4. Drum, Collector; Length 125 mm dia 50 mm Rotating Speed 500 – 4000 RPM

Plate Collector 125 x 125 mm ;

5. Distance Adjustment Manual adjustment of distance between Syringe and Collector 0 to 250 mm ;

6. Cabin Heating, Temperature & Humidity Display- Provision to heat cabin up to 40°C Digital Display of Cabin Temperature & Humidity

Features of Cabinet - Table Top Instrument, Aluminum Strut frame with glass/polycarbonate clear panel on the left side and front doors. All other panels made of Epoxy based insulated material and aluminum sheets

Safety switch to switch off H.V. Power supply when door is opened; Hazard lamp to indicate that H.V. Power supply is on ; Proper cabin lighting ; Back Light to view Needle tip ; Exhaust Fan-ventilation ; Emergency Stop ; Rubber floor mat for user safety

PANEL MOUNTED CONTROLS