



## Indian Institute of Technology Kanpur National Centre for Flexible Electronics

**Enquiry number: SCDT/FLEXE/2017-18/07**

**Opening Date: 22/05/2017**

**Closing Date: 01/06/2017**

### **Subject: Purchase of Dip Coating Unit**

Sealed quotations from prospective vendors are invited by Samtel Center for Display Technologies, IIT Kanpur for “**Dip Coating Unit**” with following specifications.

**Note-** All vendors are requested to submit “**technical and financial bids**” together in separately sealed envelopes.

**Technical requirements:** Suitable dip coating units are required which can coat different substrates with liquid solutions via dip coating method. Coating should be uniform and should applies for a range of solvents. Dip coating unit is needed for preparing thin films of desired thickness on different substrates. Single component solvents and solutions should be used for coating purposes.

### **Specifications for Dip Coating unit**

System should have the following components,-

### **PC-controlled Single-vessel Dip Coating System with Substrate Heating**

1. Both PC & Micro-controller Controlled
2. Dipping & Lifting Speed: 0.5-450 mm/min or better
3. Dipping & Lifting Length: 120-150 mm or more
4. Film Length: 80-100 mm or more
5. Arrow Display for Dipping & Lifting
6. Unlimited Deposition Cycles
7. Unlimited Drying & Wetting Time
8. Unlimited Programs in PC Mode & 10-15 or more Preset Editable Programs in Stand-alone Mode
9. Non-volatile Program Memory
10. Input & Controlling through PC Software in PC Mode & through Key-pad in Stand-alone Mode
11. Integrated Power On/Off Switch with Indicator
12. Both PC & Micro-controller Controlled Substrate Mount/Unmount Option
13. Both PC & Micro-controller Controlled Blank Distance Adjustment Option
14. Both PC & Micro-controller Controlled Self-performance Test Option
15. Real-time Display of Control Processes in PC Software in PC Mode & on 4 Line LCD Console
16. Experimental Sample Details Saving Provision
17. User-friendly Software & Firmware Interface
18. Power: Indian Standard

### **Both PC & Micro-controller Controlled**

1. Programmable Temperature Range: Ambient to 150°C or more
2. Accuracy:  $< \pm 2^\circ$  or better Error across the Full Range
3. Continuous Controlling of Set Temperature
4. Real-time Temperature Monitoring
5. Integrated Power On/Off Switch with Indicator
6. Power: Indian Standard

### **Environmental Chamber**

1. Fully Transparent
2. Three Sided Transparent Acrylic
3. Front Sided Openable Glass Door
4. N<sub>2</sub> & other Inert Gas Purging Port
5. Chamber Illumination Provision
6. Chamber Exhaust Provision

### **Substrate Holder**

1. Single Substrate Holder
2. Multi Substrate Holder

### **PTFE Substrates**

1. 2 cm (L) X 2 cm (W) of 1 mm Thickness
2. 5 cm (L) X 5 cm (W) of 1 mm Thickness

### **Terms and Conditions:**

1. Bidders interested to participate in tender must have ISO certification and CE certified instruments shall be preferable.
2. Evaluation will be done on the basis of technical specifications as per our tender notice.
3. Financial bids will be open only for those, who meets all technical specification.
4. Please do mention tender number clearly on envelop.
5. Please send the name and contact details of the person to whom company had supplied a similar systems. Committee may ask for the feedback.
6. The supplier must have supplied systems to institutions of national and/or international repute.
7. Quotation must indicate FCA or FOB prices.
8. Payment terms & condition is 70% against delivery, 20% after installation and 10% after successful running of equipment for 3 months & approval.
9. Warranty/Guarantee should be clearly mentioned. The Warranty must start from the date of installation at IITK.
10. Installation, demonstration, and training-sessions at IIT Kanpur will have to be provided by the manufacturer or the vendor for the quoted system.
11. Quotation should carry proper certifications like proprietary certificate, authorization certificate from manufacturer, etc.
12. Validity of quotation should be at least for 60 days.
13. Maximum educational discounts should be applied.
14. Institute is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%).
15. Institute is exempted from payment of Excise Duty under notification No. 10/97.
16. The delivery period should be specifically stated. Earlier delivery may be preferred.
17. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.

Kindly send the quotation in sealed envelope latest by 3:00 PM on dated 01/06/2017 to the following address;

To,  
Prof Siddhartha Panda,  
Room No.310,  
Samtel Centre for Display Technologies (SCDT),  
Indian Institute of Technology Kanpur,  
Kanpur – 208016, Uttar Pradesh, India