

**Indian Institute of Technology Delhi  
Centre for Biomedical Engineering**

Date: 09/09/2011

Ref: CBME/2011/EQUIP2

The Centre for Biomedical Engineering (CBME) invites quotations for a programmable spin coater.

<b>Max. wafer size</b>	6 " Dia. or 5" Square
<b>Speed of rotation</b>	100 RPM to 12000 RPM or better
<b>Vacuum chuck</b>	Poly propylene 45 mm Dia.
<b>Power input</b>	230 VAC, 50 Hz
<b>Number of steps and setting</b>	Should be programmable to multiple number of steps (50 steps & 20 programs).
<b>Display</b>	Real-time display of RPM
<b>Syringes</b>	4 different size needles & 10 disposable syringes i> Syringes adapter -5ml ii> Syringes adapter -30ml
<b>Bowl material &amp; size</b>	Polypropylene & 9" Internal Dia.
<b>RPM accuracy</b>	1 sec to 99 min. 59.9 seconds in 0.1 second increments.
<b>Acceleration</b>	Up to 13,000 RPM/sec with standard chuck (in 1 RPM increment)
<b>Others</b>	i> Provision of drain, reservoir & exhaust port. ii> With all safety interlocks for overload, door interlock, door locking during run. iii> Corrosion proof configuration.
<b>Applications</b>	i> Should have the capability to handle polymeric (bio as well as synthetic polymer) solutions in organic solvents. ii> System should be certified as complete for carrying out the following types of experiments and any necessary accessories must also be included in the quotation: (a) To prepare thin films of polymer/fullerene and polymer/inorganic-nanomaterial mixtures, (b) To prepare spin-coated fluorophore-labeled DNA or protein samples for single molecule FRET study.
<b>Optional</b>	i> Vacuum pump non-US oil-less ii> System should be upgradable to multiple dispenses iii> Other accessories as applicable

**Warranty:** A comprehensive on-site warranty for 1 year (including spare parts and labor charges) should be provided.

## **Terms and conditions**

- The technical and commercial bids must be submitted in separate sealed envelopes subscribed with "**Technical Bid**" or "**Commercial Bid**" as appropriate. Both the technical and the commercial bids should be enclosed in an envelope subscribed "**Quotation for programmable Spin Coater**" and should be submitted to the undersigned.
- The supplier must be an authorized dealer/distributor of the principal/manufacturer. We may request an authorization certificate from the principal/manufacturer.
- A copy of order enlisting the Indian agent with Department of Expenditure, Ministry of Finance should be enclosed.
- CIF New Delhi prices should be quoted with all the terms and conditions i.e. applicable taxes, installation, warranty and delivery schedule.
- Quotations must be valid for at least three months from the date of the NIQ.
- A special discount/rebate wherever admissible keeping in view that supplies are being made for educational purpose in respect of public institution of national importance may please be indicated.
- The institute reserves right to accept or reject any or all quotations without stating the reasons thereof.
- The quotations should reach the below address latest by 28<sup>th</sup> Sept. 2011.

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