

## **CENTRE FOR POLYMER SCIENCE AND ENGINEERING**

Ref. IITD/CPSE/Dec.

Date: 27-12-2012

### **Notice Inviting Quotations**

Fabricators / manufacturers of quality polymer processing equipments are invited to quote for the supply of a **Micro-compounder /Micro twin screw extruder**. The equipment should strictly adhere to the specifications described below. Quotations should include (i) technical and (ii) financial bids separately and be put in separate sealed envelopes and placed together in a sealed outer envelope.

#### **Technical specifications for Micro-compounder /Micro twin screw extruder**

1. Barrel capacity: 4.5 to 7.5 cm<sup>3</sup> (range)
2. Maximum temperature range: 350°C or above
3. Temperature zones: Two
4. Maximum torque: 5Nm/screw or above
5. Pressure sensor/transducer: Capable of measuring upto 200 bars
6. Screw design: conical co- and counter rotating
7. Screw Speed: 1rpm (min) to 400 rpm (max)
8. Screw speed control: by digital RPM adjustment by frequency drive with torque measurement facility
9. Feeding: Manual
10. Cooling: Water and air cooling
11. Bypass torque control: Manual
12. Motor capacity: 400W or higher
13. Outlet die: circular and/or square
14. Instrument control: PC controlled with compatible visualization software and necessary tools for handling and cleaning

**Optional:** Micro Twin Screw Extruder should preferably be compatible with our existing micro Injection moulding machine and must work in conjunction with this machine

**Terms and conditions:**

- Validity of the quotation should be for minimum three months.
- Delivery period not more than 30 days.
- Comprehensive on-site warranty for three years
- Prices quoted should be both for FOB and CIF, New Delhi
- power connections should be suitable for Indian supply at 220 V
- All bank charges outside India shall be on Beneficiary's account and within India shall be on opener's account, in case of imported items.
- 100% Payment through letter of credit (L.C.) after successful installation, commissioning and training.
- Please provide bank details for opening LC
- Educational Institution discount should be given.
- If the item is proprietary in nature, a proprietary certificate should be enclosed
- If the bidder is Indian agent, the Agent ship certificate should be enclosed.
- The Institute reserves the right to accept or reject any/all of the quotations without assigning any reasons thereof.
- List of references of users of the quoted equipment must be submitted with complete postal address, email address, Tel. No. and name of the user(s).
- The unit with given specifications must already be in production and supplied to at least one reputed research organization in India or abroad. Please give contact number and email of the concerned person in charge.
- The manufacturing company should have well established network base in India to install, maintain and repair supplied items on long term basis.
- Provide name of Engineer in Delhi NCR Region who has been trained to repair this machine, if available.

**Sealed quotations must reach the undersigned on or before 07-02-2013, latest by 14:00 hrs.**

**Prof. Veena Choudhary (Head)**  
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