



Indian Institute of Technology Kanpur

National Centre for Flexible Electronics

Enquiry number: SCDT/FlexE/2017-18/01

Date: 05/04/2017

Opening Date : 05/04/2017

Closing Date : 18/04/2017

Subject: Purchase of Homogeniser/disperser.

Sealed Quotations from prospective vendors are invited by National Centre for Flexible Electronics, IIT Kanpur for the purchase of **“Homogeniser/disperser”** with following specifications:

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

Equipment Description (Technical requirements):

We are looking for dispersing, homogenizing and emulsifying the two phase's liquids with the technical specification given below.

Machine should have only one shaft, suitable for all the applications and configurable with different models of rotors / stators. The shaft should be made up of stainless steel 316L and the PTFE sheets.

ROTOR / STATOR: The system consists of a rotor which rotates at high speed within a stationary stator. The rotor and stator have one or more rows of sharp-edged teeth. Because of the high rotor speed, the medium to be processed is automatically sucked axially into the dispersing head and is then pressed radially through the slots of the rotor-stator arrangement. The wide range of rotors / stators assure the most suitable solution for the different applications. Machine should be quick assemble and disassemble for dispersing tools.

Technical Specifications

- | | | |
|---------------------------------|---|--------------------------------------|
| 1. Stirring speed | : | From 10000 to 30000 rpm. |
| 2. Stirring speed | : | Graduated scale. |
| 3. Stirring volume max | : | up to 8 liters as homogenizer. |
| 4. Stirring volume max | : | up to 40 liters as high speed mixer. |
| 5. Max viscosity (mPa*s) | : | 10000 or better |
| 6. Power | : | 500W or better |

(Rotor and stator combination)

- | | | |
|-----------------------------|---|---|
| 7. Dispersing tool 1 | : | 15mm rotor and 20mm stator for 10-5000 ml of water or better |
| 8. Dispersing tool 2 | : | 23 mm rotor and 40mm stator for 1000-40000ml of water or better |

SAFETY DEVICES: System should have safety devices for Overload protection, Smooth start and Safety switch.

- System tools should include suitable H stand, Boss head and clamp which should be chemical resistant and rust proof
- The total weight of motor assembly (excluding stands & supporting assembly) should not exceed 2Kg.

Terms and Conditions:

1. Evaluation will be done on the basis of technical specifications as per our tender notice.
2. Financial bids will be open only for those, who meets all technical specification.
3. Please do mention tender number clearly on envelop.
4. Please send the name and contact details of the person to whom company had supplied a similar systems. Committee may ask for the feedback.
5. The supplier must have supplied systems to institutions of national and/or international repute.
6. Quotation must indicate FCA or FOB prices.
7. Payment terms & condition is 70% against delivery, 20% after installation and 10% after successful running of equipment for 3 months & approval.
8. Warranty/Guarantee should be clearly mentioned. The Warranty must start from the date of installation at IITK.
9. Installation, demonstration, and training-sessions at IIT Kanpur will have to be provided by the manufacturer or the vendor for the quoted system.
10. Quotation should carry proper certifications like proprietary certificate, authorization certificate from manufacturer, etc.
11. Validity of quotation should be at least for 60 days.
12. Maximum educational discounts should be applied.
13. Institute is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%).
14. Institute is exempted from payment of Excise Duty under notification No. 10/97.
15. The delivery period should be specifically stated. Earlier delivery may be preferred.
16. 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 3.00PM on dated 18/04/2017 to the following address;

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