

**Office of the Dean Research and Development
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103**

Project Code: DRC/MNRE/CEGESS/HS/006/11-12

**Centre of Excellence for Green Energy & Sensor Systems
Indian Institute of Engineering Science & Technology (IEST), Shibpur
Howrah-711 103**

Notice Inviting Quotations

Sealed quotations are invited for the supply of

Item 1. Programmable Spin Coating System

Item 2. Muffle Furnace

as per the following technical specification. The technical specification can be downloaded from the website. The document can be also obtained from the Centre of Excellence for Green Energy & Sensor Systems (contact: Prof. H. Saha) between 10.30 a.m. and 3.00 p.m. on all working days. The invitation is valid for 7 working days from the date of publication of this notice.

Dean (R & D)

(A. Code DRC-T087/16-17)

SECTION I: TERMS & CONDITIONS

1. The last date of receipt of quotation is valid **for 7 working days** from the date of publication of this notice. Quotations received later will not be entertained under any circumstances.
2. Potential supplier are to submit the quotations in Sealed Cover to the Centre of Excellence for Green Energy & Sensor Systems in the following address:

**Prof. Hiranmay Saha
Chair Professor & Project Investigator
CEGESS, IEST, Shibpur
Howrah-711103, India**

3. Item name must be mentioned on cover
4. The price quoted should be inclusive of all Taxes in INR, duties and levies. Inclusion of Tax/Levy at a latter stage will not be accepted. Freight, Insurance charges should be clearly indicated.
5. **Documents to be submitted with the Quotation**
 - General Conditions (**Section I**) and Important Instruction (**Clint list**) in original duly signed by the Proprietor/ Partner/ Director of the company as a token of acceptance of Terms and Conditions of Tender.
 - **Latest Income Tax, Sales Tax, Professional Tax, CST clearance certificates and copy of valid Trade License. (photo copy duly signed) (Compulsory)**
 - Demand Draft/ Pay Order for Earnest Money Deposit.
6. For all items the warranty/ guarantee period should be at least 12 months from the date of commissioning. Warranty/ Guarantee for all the items supplied will be on 'all comprehensive' basis, i.e., including repairs, replacements, maintenance etc.
Calibration / Test Certificate must accompany along with the equipment.
Supply of equipment shall include installation, commissioning and demonstration. IEST, Shibpur, Howrah reserves the right to accept/ reject all or any of the supplier without assigning any reason whatsoever.
7. **The vendors quoting against this Notice should have a proven track record to export internationally and should have supplied similar instruments like IIT, NIT, IEST, Central Gov. Institution (document should be attached)**
- 8 . IEST, Shibpur, reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever.

I/We accept the above terms and

conditions. **Signature of the**

Supplier with date and seal

SECTION II: TECHNICAL SPECIFICATIONS

Item 1. Programmable Spin Coating System

1. Programmable Spin Coating System
Micro-controller Controlled
Brushless DC Motor
Speed Range: 100-10,000 R.P.M. [based on a Glass Substrate of Dimension 1.5" (L) X 1" (W) & Thickness 0.05"]
< ±1% Error across the Full Speed Range
Acceleration: 40-5,000 R.P.M./sec [based on a Glass Substrate of Dimension 1.5" (L) X 1" (W) & Thickness 0.05"]
Duration: 1-9,999 sec/step
50 Preset Editable Programs
100 Steps (Maximum)/Program
Real-time Display of R.P.M., Timing & Program Status on Graphical LCD Console
Real-time Display of R.P.M. vs. Time Graph on Graphical LCD Console
Non-volatile Program Memory
Input & Controlling through Key-pad
Teflon coated Working Chamber of 10" Diameter
User-friendly Firmware Interface
Integrated Power On/Off Switch with Indicator
Integrated Vacuum release Switch with On/Off Indicator
Integrated Lid Protection Switch with On/Off Indicator
Integrated Digital Magnetic Lid Inter-lock
Integrated Working Chamber Illumination Facility
Calibration Option
Warm Up Option
Spill-drainage Facility
N ₂ & other Inert Gas Purging Port
Transparent Photo-resist Safety Lid over the Working Chamber
In-situ Sample Dispensing Port on the Transparent Photo-resist Safety Lid
Power: Indian Standard
Wattage: 120 W (Maximum)

Item 2. Muffle Furnace

Technical Specification:-

- Digital Temperature Range: Ambient to 1050°C.
- Working Chamber Size: 6" X 6" X 10".
- Minimum Ramp Rate for heat up: 3°C per minute
- Complete with Pyrometer, Thermocouple and Compensation Lead
- Real-time Temperature Monitoring

Maximum Power Wattage: 4.5 KW