

**Department of Physics**  
**Indian institute of Engineering Science and Technology (IEST), Shibpur**  
**Howrah-711 103**

**Project Code: UGC BSR RESEARCH FELLOWSHIP**

**Notice Inviting Quotations**

Sealed quotations are invited for the supply of (i) *Split open tube furnace* and (ii) *Spin coater system* as per the following technical specification. The relevant bidding document can be downloaded from the website. The document can be also obtained from the Department of Physics (contact : Dr. Manish Pal Chowdhury) between 10.30 a.m. and 3.00 p.m. on all working days **from 09<sup>th</sup> November, 2016 to 18<sup>th</sup> November, 2016**. Last date of submission of sealed quotation is **18<sup>th</sup> November 2016 by 3.00 p.m.**

**(Tender No: PHY/MPC.Proj/Lab.Equip/2016-17/001 )**

*This is downloadable*

**Indian institute of Engineering Science and Technology (IEST),  
SHIBPUR**



**BIDDING DOCUMENT**

**(Project Code: UGC BSR RESEARCH FELLOWSHIP)  
Tender No: PHY/MPC.Proj/Lab.Equip/2016-17/001**

*For Supply of*

- (i) Split open tube furnace  
and  
(ii) Spin coater system***

**Under**

UGC Start-up Project Scheme  
Govt. of India (New Delhi)

**Department of Physics**

**November 09, 2016**

**SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS  
FOR BIDDERS**

1. Bidders are to invited to submit sealed quotation as per the technical specifications for tendered item to Dr. Manish Pal Chowdhury, Assistant Professor, Department of Physics, **on or before 18<sup>th</sup> November** between **10.30 a.m. to 3.00 p.m.** except Saturday, Sunday and other public holidays.
2. The last date of receipt of tenders is **18<sup>th</sup> November 2016 up to 3.00 p.m.** quotations received later will not be entertained under any circumstances.
3. Date and time of opening of bid is **19<sup>th</sup> November, 2016 at 03.00 p.m.** and the place of opening of bid is HOD office of the Department of Physics, Indian institute of Engineering Science and Technology (IEST), Shibpur, Howrah-711103.
4. Bidders are to submit the quotations in Sealed Cover to the Department of Physics in the following address:

**Dr. Manish Pal Chowdhury  
Assistant Professor  
Department of Physics  
Indian institute of Engineering Science and Technology (IEST), Shibpur  
Howrah-711103, India**

5. All bids should be submitted in ONE-BID (TECHNO-COMMERCIAL BID) Format in covers (Enquiry Number must be mentioned on cover).

TECHNO-COMMERCIAL BID - giving Detailed Specifications, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & Technical Details / Operating Parameters, Pre-Installation Requirements, payment terms, warranty, etc. along with PRICE BID - giving full Prices in Indian Rupees (only) for

- (a) Tendered item.
- (b) Essential Accessories & Spares.

6. The price quoted should be inclusive of all Taxes, duties and levies. Inclusion of Tax/Levy at a latter stage will not be accepted. Freight, Insurance charges should be clearly indicated.
7. The materials are to be supplied at a place within BESUS premises between 11.00 a.m. and 4.00 p.m. The tenderer will be responsible for any breakage, damage or defect in the equipment detected subsequently. The supply and installation of the equipment should be completed within a period not exceeding 3 months from the placement of the formal work order or opening of the LC failing which appropriate action will be taken as per university rules.
8. If the supply is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ ½ per cent per week will be imposed subject to maximum of 5% of the value of work order.

9. For Indian purchase (*This clause is applicable only for Indian purchase and not applicable for foreign purchase*):

Bills in triplicate should be presented for payment within 15 days of Supply / Completion of work. No Advance Payment can be made. All bills are to be accompanied by Order copies and Challan Receipt. The Order Number is to be noted on both the Challan and the Bill.

**10. Documents to be submitted with the tender:**

Tender Documents/Terms & Conditions in Original duly signed by the Proprietor / Partner/ Director of the Company as a token of acceptance of Terms & Conditions of Tender.

**11. Customs Duty & Excise Duty**

- The University will not issue any C or D form availing of concessional Sales Tax/ VAT.
- The University will issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.

**12. Indian institute of Engineering Science and Technology (IEST), Shibpur, Howrah reserves the right to accept / reject all or any of the tenders without assigning any reason whatsoever.**

We accept the above terms and conditions.

Dated:

Signature of Bidders/Suppliers  
With date & Seal

## **SECTION II: TECHNICAL SPECIFICATIONS**

### **1. A) Split open tube furnace**

Split open compact tube furnace for 1 inch quartz tube  
Continuous (prolonged) heating at 600C  
6 inch heating zone  
PID temperature controller, thyristor controlled  
Safety auto power cut

**B) 2 quartz tubes (1 inch diameter), length 24inch**

### **2. Spin coater system**

Micro-controller Controlled  
Brushless DC Motor, Speed Range: 500-6,000 R.P.M.  
Acceleration Period: 2-3 sec  
Duration: 1-1,200 sec  
Real-time Display of R.P.M., Timing & Program Status on 4 Line LCD Console  
Chamber of 6"Diameter  
Substrate holder