

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

Project Code: DRC/DST-INSPIRE/SMSE/PS/003/16-17

Ref.: Tender Advt. No. SMS 1221, published in the "Bartmaan", dated 26.10.2016

**Dr. M.N. Dastur School of Materials Science and Engineering
Indian Institute of Engineering Science and Technology,
Shibpur, Howrah-711 103**

Notice Inviting Quotations

Sealed quotations are invited for the supply of i) **Pre-spinning device with generator for natural polymers** and ii) **Nanofiber spinning device** as per the technical specification provided in Section II. The relevant bidding document can be downloaded from the website. The document can be also obtained from the Dr. M.N. Dastur School of Materials Science and Engineering (contact: Dr. Prosenjit Saha) between 11.00 a.m. and 3.00 p.m. on all working days for fifteen working days from the date of publication. The sealed quotations should be submitted at the office of the M.N. Dastur School of Materials Science and Engineering within 15 working days from the date of publication of the notice till 5.00 P.M. The quotation should include the delivery charges (in INR) of the item to MNDSMSE, Indian Institute of Engineering Science & Technology, Shibpur.

Dean (R & D)

(A. Code DRC-T058/16-17)

This is downloadable

**Indian Institute of Engineering Science and Technology,
Shibpur, Howrah-711 103**



BIDDING DOCUMENT

(Project Code: DRC/DST-INSPIRE/SMSE/PS/003/16-17)

For Supply of

(1) Pre-spinning device with generator for natural polymers, (2) Nanofiber spinning device

Under

DST-INSPIRE, Government of India Project

(DRC/DST-INSPIRE/SMSE/PS/003/16-17)

Dr. M.N. Dastur School of Materials Science and Engineering

October, 2016

SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS

FOR BIDDERS

1. Bidders are invited to submit sealed quotation as per the technical specifications for tendered item to Dr. Prosenjit Saha, Assistant Professor, Dr. M.N. Dastur School of Materials Science and Engineering , on or before **fifteen working days from the date of publication** between **10.30 a.m. to 5.00 p.m.** except Saturday, Sunday and other public holidays.
2. The tender should reach the office address (mentioned below) **within 15 working days from the day of publication**. Quotations received later will not be entertained under any circumstances.
3. The tender will be opened on the **next working day of due date at 01.00 p.m.** and the place of opening of bid is Director's Office of Dr. M.N. Dastur School of Materials Science and Engineering, Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah-711103.
4. The minimum validity of submitted Tender should be **six months**.
5. Bidders are to submit the quotations in Sealed Cover to the following address:

**Dr. PROSENJIT SAHA
ASSISTANT PROFESSOR
(DST INSPIRE FACULTY FELLOW)
Dr. M.N. DASTUR SCHOOL OF MATERIALS SCIENCE AND
ENGINEERING
INDIAN INSTITUTE OF ENGINEERING SCIENCE AND
TECHNOLOGY (IEST)-SHIBPUR
P.O-BOTANIC GARDEN, HOWRAH-711 103, WB, INDIA**

6. 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.

7. The price quoted should be inclusive of all Taxes, duties and levies. Inclusion of Tax/Levy at a later stage will not be accepted. Freight, Insurance charges should be clearly indicated.

8. The materials are to be supplied at a place within IEST, Shibpur 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.

9. If the supply is not completed within the stipulated period as indicated in the WorkOrder, a Liquidated Damage @ ½ per cent per week will be imposed subject to maximum of 5% of the value of work order.

10. 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.

11. 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.

For the proprietary items, the bidders/manufacturers should submit proper proprietary certificate.

Latest Income Tax, Sales Tax, Professional Tax clearance certificates and copy of valid Trade License.

12. 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 for foreign purchase or Excise Duty Exemption Certificate, if required.

13. 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

(i) ITEM-1: Pre-spinning device with generator for natural polymers

Specifications:

- **High Voltage power supply unit**
 - Input voltage: 90-240 VAC+/-
 - Voltage range: 0-30 KV, 20Watt
 - Output current range: 0 to 400 uA
 - Microprocessor based controller system
 - Voltage output continuously adjustable from zero to maximum output
 - Overload trip- unit shut down if current exceeds 20% of the maximum output current
- **Collector**
 - Stationary collector: 20 cm x 20 cm

(ii) ITEM-2: Nanofiber spinning device

Specifications:

- Horizontal Spinning
- Vertical Spinning
- Solvent collector Spinning
- Syringe pump: Two Channel
 - Flow rate: 0.1 ul/min to 3 ml/min
 - Highly précised operations
 - Microprocessor based operation for precise flow control
 - Infusion/withdrawal pumping system
 - Programmable
 - Volume and Time control
- Collector
 - Drum collector: Fibre alignment
 - Adjustable speed of rotating drum (200 to 3500 RPM)
- Spinneret
 - Multi-nozzle
 - Single Nozzle
 - Core-shell Nozzle
- Linear Stage
 - X axis manual control
 - Y axis manual control

- Z axis manual control
- Control panel
 - Power light
 - Main emergency stop button
 - ON/OFF button
 - Speed controller
- Accessories
 - Silicone Tube
 - 3, 5 and 10 ml syringe with needles (50 number each)
 - Foot pad
 - Short circuit stick
 - Tools