

**Department of Mechanical Engineering
Indian Institute of Engineering Science and Technology (IEST), Shibpur
P.O. Botanic Garden, Howrah-711103, West Bengal, India**

Allotment Head: Department Non Plan
Grant Fund: Department Non Plan Grant

Ref.: Tender Advt. No. ME/BP/23-24/01, dated 20.06.2023

Notice Inviting Quotations

Sealed quotations are invited for the supply of various consumables. The relevant bidding document can be downloaded from the website. Last date of submission of sealed quotation is **28 days from the date of publication by 5.00 p.m.**

This is downloadable

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR



BIDDING DOCUMENT

Allotment Head: Department Non Plan Grant

Fund: Department Non Plan Grant

For Supply of Consumables

Department of Mechanical Engineering, IEST Shibpur

20th June, 2023

SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS FOR BIDDERS

1. Bidders are invited to submit sealed quotations as per the technical specifications for tendered item to HOD, Department of Mechanical Engineering, **by 28 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 last date of receipt of tenders is **28 days from the date of publication** upto **5.00 p.m.** Quotations received later will not be entertained under any circumstances.
3. Date and time of opening of bid is **next working day at 11.00 a.m.** and the place of opening of bid is at the office of the Department of Mechanical Engineering, IEST, Shibpur, Howrah-711103.
4. Bidders are to submit the quotations in Sealed Cover to the Department of Mechanical Engineering in the following address:

**HOD,
Department of Mechanical Engineering,
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, payment terms, warranty, etc. along with PRICE BID - giving full Prices in Indian Rupees (only) for

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

6. **The price quoted should be inclusive of all taxes, duties and levies. Inclusion of taxes, duties and levies at a later stage will not be accepted. Freight, Insurance charges should, if applicable, be also included in the quoted price.**
7. 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 items detected subsequently. The supply of Consumables should be completed within a period not exceeding **four months** from the placement of the formal work order or opening of the LC failing which appropriate action will be taken as per institute rules.
8. If the supply is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ $\frac{1}{2}$ per cent per week will be imposed subject to a maximum of 5% of the value of work order.
9. Catalogue number(s) of the respective manufacturers along with name of the manufacturers/brand name and purity (grade) of the items must be provided with the techno-commercial bid without which bid will not be considered.

10. As applicable, **manufacturer certificates and/or authorized distributor certificates** from the OEMs will be required with the techno-commercial bid.

11. The evaluation will be done **on the basis of overall price of all the items.**

12. 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.

13. **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.

14. **Customs Duty & Excise Duty**

- The Institute will not issue any C or D form availing of concessional Sales Tax/VAT.
- The Institute will not issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.
- **The Institute will not provide GST Exemption Certificate and GST to be quoted @18%.**

15. **Indian Institute of Engineering Science and Technology, 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

List of Consumables to be purchased

Item 1: Composite Femur, 4th Gen., 17 PCF Solid Foam Cancellous

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|----------------------|--|
| Description | <p>Composite Femur model (latest generation) for mechanical testing, includes a 17 PCF density cancellous foam core, a 13mm canal, and an overall length of 455 mm</p> <p>Cortical bone layer: composed of short Fiber Filled Epoxy Cancellous core: composed of Polyurethane foam</p> <p>Mechanical Properties: Tensile elastic Modulus (GPa): 16 Tensile strength (MPa): 107 Compressive elastic Modulus (GPa): 16.6 Compressive strength (MPa): 154 Axial Stiffness: 1.86 Torsional Rigidity: 3.21</p> |
| Specification | <p>Orientation: Left Model Type: Composite Bone Colour: Grey / Green</p> |
| Quantity | 1 |

Item 2: Block, 7.5 PCF, Cellular

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| Description | <p>Rigid foam cellular block for biomechanical testing Size: 130 mm x 180 mm x 40 mm. Composition of Material: Cellular rigid polyurethane foam Material Density: 7.5 (pcf) or 0.12(gm/cc), Volume Fraction: 0.10</p> <p>Mechanical Properties: Compressive elastic Modulus (MPa): 12.4 Compressive strength (MPa): 1.4</p> |
| Specification | <p>Model Type: Block / Domes Material: Cellular foam Colour: off white</p> |
| Quantity | 1 |

Item 3: Block,15 PCF,Cellular

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| Description | Foam cellular block for biomechanical testing and product demonstration. Size: 130 mm x 180 mm x 40 mm. Composition of Material: Cellular rigid polyurethane foam Material Density: 15 (pcf) or 0.24(gm/cc) Volume Fraction:0.20 Mechanical Properties: Compressive elastic Modulus (MPa): 68 Compressive strength (MPa): 4.1 |
| Specification | Model Type: Block / Domes Material: Cellular foam Colour: off white |
| Quantity | 1 |

**The item and quantity may vary depending upon the availability of the fund.*