

INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

COMPACT/TABLE-TOP AUTOMATED UNIVERSAL TESTING MACHINE (Servo-hydraulic/ELECTROMECHANICAL) FOR TECHNICAL TEXTILE FIBRES/COMPOSITS (Refurbished/ demo unit/used instrument or parts is not eligible for bidding)

The offer must include: Door-step delivery, unloading, installation and commissioning, and full training to IIT Kharagpur Scholars/Staff.

Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/ BROCHURE. The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches not later than **14.02.2019 at 15:00 Hrs** at the following address:

**Dr. Satyahari Dey,
Professor, Department of Biotechnology,
Indian Institute of Technology Kharagpur,
721 302, West Bengal, India**

Earnest money of Rs.80000.00 is to be deposited in the form of Account payee Demand Draft in favour of IIT Kharagpur, payable at Kharagpur, India. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

Tender Reference	IIT/SRIC/STEP/2018/EQ2Dated: 21.01.2019
Price of Tender Document	NIL
Last Date and Time for submitting the tender document	14.02.2019 at 15:00 Hrs (Indian time)
Time and Date of Opening of Technical Bids	14.02.2019 at 16:00 Hrs (Indian time)
Place of Opening Tender	SRIC Meeting Room. Indian Institute of Technology Kharagpur, 721 302, West Bengal, India
Address of Communication	Dr. Satyahari Dey, Professor, Department of Biotechnology, Indian Institute of Technology Kharagpur, 721 302, West Bengal, India
Contact Telephone Numbers	+91 -3222 - 283760
E-mail	sdey@bt.iitkgp.ac.in

DETAILED TECHNICAL SPECIFICATIONS FOR

COMPACT/TABLE-TOP AUTOMATED UNIVERSAL TESTING MACHINE (Servo-hydraulic/ELECTROMECHANICAL) FOR TECHNICAL TEXTILE FIBRES/COMPOSITS (Refurbished/ demo unit/used instrument or parts is not eligible for bidding)

1. Electromechanical UTM (Range 100 N – 5 kN)

- Electromechanical Load frame for Dynamic test range 100 N – 5kN (level of accuracy required: +/- 0.5%)
- Load cells of capacity 100 N, 500 N , 1 kN, 3 kN & 5 kN.
- Displacement/strain and force control
- Noise during routine operation < 65 Db
- Atleast 150 mm dynamic stroke (actuator integral to crosshead)
- Capable of performing high cycle and low cycle fatigue tests
- Vertical test space required (measured from crosshead) >500 mm
- Width between columns (inside clear distance) > 500 mm
- Power requirements ~ 240 V, single phase
- Latest multichannel digital servo control, data acquisition, hydraulic control, digital I/O with load, strain control facilities with basic software package and large system cables.

Accessories

- Electromechanical/Pneumatic Grips for tests on polymer films, rubber, soft elastomer, fiber mats, fibers in addition to the above grips mentioned suitable for attachment upto 5 kN load cells
- Base plate with LVDT and/or other instrument mounting facility.
- Flexural attachment fixtures for 3 and 4 point bending tests.
- Grips for elasto-plastic fracture toughness testing, fatigue fracture test.
- Crack tip opening displacement apparatus.
- Strain gauge extensometers of 50 mm gauge length.
- Non-contact type video extensometer and associated software

Note:

- (i) The supplier has to provide a highly skilled full time person with suitable expertise for providing technical assistance and routine maintenance of the proposed UTM for a period of 3-years from the date of installation of the system in the institute. The institute shall have no responsibility for his/her service liabilities. The expenses for such service should be quoted separately.
- (ii) Three years annual maintenance contract (AMC) from the date of expiring warranty for the UTM is must. Price for AMC for a period of 3 years should be quoted separately.
- (iii) The supplier must provide details of atleast 5 prior installation of similar type machines in India (preferably IIT's and/or other government institutions) within the span of 3 years and the contact addresses of the customers for performance review.

Please submit complete catalogue for the quoted brand, make/model. Also give website details where complete information (no less than the quoted information) is available. The system should be quoted such that full components are supplied for plug and play operation. Only space, power line and water line will be provided in the site.

N.B. Please quote for latest Models launched by your Principal/Overseas Equipment Manufacturer (OEM). Bid should include a letter (hardcopy) from OEM that the quoted Model is not older than 3 years, and will be in market /spares will be available for at least 5 years. Also, the bidder must have installed successfully at least 02 such instrument in any Institution/organization in India/abroad (*please provide users name, email id and mobile number for receiving our feedback from the users. Without the users details the technical bid will be considered incomplete.*). Technical bid with ambiguous/incomplete specifications is liable for rejection. Price break up for all major components are essential. Details of space and pre-installation needs are essential. The supply of operation and service manual with circuit diagrams/ trouble shooting guidelines for users are essential.

A Technical cum Purchase Committee (TCPC) will review bids and the firm(s) quoted desirable specifications may be invited for a presentation anytime thereafter. Direct quotation from Principal (hardcopy) is a must before placing order. The decision of the TCPC will be final for selecting eligible technical and financial bids

All items of the instrument must have Warranty: free 1 year usual + additional 3 years on charge basis. Softwares must be updated online by the original vendor till 4th year and your quotation must mention it.

Please give details of your data analysis work station (memory, monitor, display, graphics capability etc and software specs)

The technical bid must include a synoptic compliance statement on major specifications in the format given below. Incomplete synoptic compliance statement makes a bid liable for rejection. *Please list major/unique specifications and comment on deviation, if any.

COMPLIANCE STATEMENT FOR MAJOR SPECIFICATIONS

Major components	* Please add quantitative data for your product (bid without such details are likely to be rejected)

GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER: -

1. TENDERS ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S / FIRM'S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPES CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOPE.

THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS:

- 1.1 FOREIGN PRINCIPAL'S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.
- 1.2 COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.
2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.
3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.
4. **PRICE BIDS FOR FOREIGN FIRMS:** PRICES ARE TO BE QUOTED ON 'EX-WORKS' DULY PACKED OR ON "FCA/FOB" INTERNATIONAL PORT" BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY, SHOWING CLEARLY THE FOLLOWING BREAK UP:-
 - I) EX-WORKS PRICE
 - II) PACKING & FORWARDING
 - III) FREIGHT
 - IV) ANY OTHER RELEVANT EXPENSES.
 - V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

PRICE BIDS FOR INDIAN FIRMS: PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. **PERIOD OF VALIDITY:** BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF **150 DAYS** FROM THE DATE OF OPENING.
6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN **FE**). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.
7. **MEASUREMENTS/WEIGHT:** NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).
8. **SCOPE OF SUPPLY:** SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING
9. **PAYMENT TERMS FOR FOREIGN FIRMS**

THE OFFER WILL BE MADE ON A SINGLE CURRENCY AND ONLY ONE PO WILL BE ISSUED FOR THE ENTIRE SCOPE OF THE SUPPLY.

- A) 90% PAYMENT THROUGH SIGHT DRAFT/FOREIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION AND 10% AFTER SUCCESSFUL INSTALLATION & COMMISSIONING.
- B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

PAYMENT TERMS FOR INDIAN FIRMS

- A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER & CONDITION AND SUCCESSFUL INSTALLATION & COMMISSIONING.
- B) ENSURE MENTIONING
 - i) BANK DETAILS OF THE BENEFICIARY, GST NO. AND PAN NUMBER
 - ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.
11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.
12. THE INSTITUTE SHALL PROVIDE THE CONCESSIONAL CUSTOMS DUTY AND EXCISE DUTY EXEMPTION CERTIFICATE AS PER GOVT. NOTIFICATION NO. 51/96 CUSTOMS DATED: 23.07.1996 AND CENTRAL EXCISE DUTY EXEMPTION IN TERMS OF GOVT. NOTIFICATION NO. 10/97 – CENTRAL EXCISE DATED: 01.03.1997 AS AMENDED FROM TIME TO TIME.
13. **LIQUIDATED DAMAGES:** THE STORES SHOULD BE DELIVERED/ DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IF THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.
14. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.
15. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.
16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.
18. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.
19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-
 - A) INCOME TAX RETURN (3 YRS) AND LATEST SALES TAX RETURN (GST No.), AND PAN NO.
 - B) BANKER'S SOLVENCY CERTIFICATE

C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

COMPANY'S KEY PERFORMANCE

DESCRIPTION	JAN. TO MARCH	APRIL TO JUNE	JULY TO SEPT.
GROSS REVENUE			
PROFIT BEFORE TAX			
PROFIT AFTER TAX			
RETURN ON INVESTED			
CAPITAL (ROIC)			

D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.

E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.

21. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO

Dr. SatyahariDey
Professor, Department of Biotechnology,
Indian Institute of Technology Kharagpur,
721 302, West Bengal, India

AND ACKNOWLEDGEMENT TO BE OBTAINED.

IMPORTANT

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity/ upgrade the criteria/ drop any item or part thereof at any time before placing the Purchase Order.
2. Promptly make arrangements for repair and/ or replacement of any damaged item(s) irrespective of settlement of claim.
3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
4. For any query pertaining to this bid document correspondence may be addressed to

Dr. SatyahariDey,

**Professor, Department of Biotechnology,
Indian Institute of Technology Kharagpur,
721 302, West Bengal, India**
E-mail: sdey@hijli.iitkgp.ac.in

LAST DATE FOR SUBMISSION OF SEALED BIDS: 14.02.2019 (Tuesday) by 15:00 Hrs. (IST)

1. Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
 2. Fax, e-mail Tender will not be accepted.
 3. The General Terms and Conditions as stated above relate to supply of stores/ equipment/ assets etc. and for specific service other terms and conditions of the Institute will apply.
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