



केन्द्रीय रेशम प्रौद्योगिक अनुसंधान संस्थान

केन्द्रीय रेशम बोर्ड

(यस्त्र मंत्रालय- भारत सरकार)

बी.टी.एम. लेआऊट मडिवाला बेंगलूरु- 560068

CENTRAL SILK TECHNOLOGICAL RESEARCH INSTITUTE

CENTRAL SILK BOARD

(Ministry of Textile - Govt. of India)

B. T.M. Layout, Madivala, Bengaluru-560068



QUALITY MANAGEMENT SYSTEM
ISO 9001:2008 CERTIFIED UNIT



Phone: 080-26685238, 26282190, Fax: 080-26680435, Email: cstriban.csb@nic.in, web: www.cstrires.in

No.CSB/CSTRI/19(52)/2014-Stores.

Date : 26.12.2017

To

Sir,

Sub: Inviting Quotations for procurement of machineries / equipments for CSTRI, Bangalore & SUB Units.-Reg.

With reference to the subject cited above, I am to inform that this Institute invites quotation in two bid system through e-procurement for supply of **TENSILE TESTING MACHINES** as per the specification mentioned below:-

SI.No.	Name of the Equipment and specifications	Qty.	DELIVERY PERIOD
1	<p>TENSILE TESTING MACHINE (UTM)</p> <p>Computer controlled Tensile testing machine confirming to working CRE principle. The machine should be capable of performing tensile and compression tests and also perform shear, flexure, peel, tear, cyclic and bend tests. Should able to handle testing of electromeric materials with high elongations.</p> <p>1. Load capacity/Cells : 5 kN & 10N</p> <p>2. Load measurement accuracy : ±0.5% of reading down to 1/1000 of load cell capacity.</p> <p>3. Instrument Structure : Cross head : Machined solid block</p> <p>Frame : Dual column testing system made of Solid base beam with adjustable heavy duty mounting feet</p> <p>Built in mechanism (Built in micro switch / Emergency stop button) for instrument control in case of first level malfunctioning.</p> <p>4. Minimum speed : 0.001 mm/min</p> <p>5. Maximum speed : 3000 mm/min</p> <p>6. Max. load at full speed : 5kN</p> <p>7. Return speed : 3000 mm/min or more</p> <p>8. Position control resolution : 0.2µm or better</p> <p>9. Crosshead speed accuracy : ±0.1% of set speed.</p> <p>10. Vertical Test space : 1250 mm or More</p> <p>11. Total cross head travel : 1100 mm or More</p> <p>12. Gauge length : Adjustable</p> <p>13. Position measurement Accuracy : ±0.01 mm or 0.05% of displacement (whichever is greater)</p> <p>14. Min. Column spacing : 400 mm or more</p>	3 Nos.*	60 days

	<p>15. Load cell recognition : Automatic transducer recognition for load cells and extensometers</p> <p>16. Data Acquisition rate at PC : Simultaneous on load, extension and strain channels.</p> <p>17. Strain measurement accuracy : Meets or surpasses the ASTM E83 / ISO 9513 standards</p> <p>18. Load weighing system should meet or surpass: ASTM E4 DIN 51221 and ISO 7500-1.</p> <p>19. Machine Test Capability :</p> <ul style="list-style-type: none"> • Tensile test • Compression test • Shear, • Flexure, • Peel, • Tear, • Cyclic • Bend tests <p>20. Humidity range : +20 to +90%, Non condensing.</p> <p>21. Operating temperature : +10 to +35 °C or more</p> <p>22. Pneumatic grips : For both 10N & 5KN load cells.</p> <ol style="list-style-type: none"> 1. One gripper suitable for testing fibres, yarns (10N) 2. One gripper (steel-serrated face) for fabric (5KN) 3. One gripper (steel with Vulcanised rubber) for yarn/rope (5KN) for lea strength. 4. Should have pneumatic grip foot controller. 5. Should have all accessories for pneumatic gripping <p>23. Test area lighting.</p> <p>24. Test cam for video recording</p> <p>25. Branded Desktop computer system (HP/Dell) of latest generation processor for high speed operation and high data storage. Windows 10 compatible software and should be completely compatible with all the operations that can be performed with the UTM instrument provided.</p> <p>26. HP/Epson Ink tank colour printer with USB port / synchronise with computer.</p> <p>27. Training on operation and maintenance has to be provided.</p> <p>28. Performance certificate of the past supplied customer along with the list of supply to public sector / govt. customers has to be provided.</p> <p>Manufacturer's technical brochure of the machine has to be attached with the technical bid along with duly signed technical compliance statement for individual points, without which the bid is considered as non compliance.</p> <p>1.</p>		
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* The above equipment should be supplied to:

- 1) CSTRI, BANGALORE-1 No.,
- 2) RSTRS, KHANAPARA, Guwahati -1No.
- 3)RSTRS, Varanasi, U.P. – 1 No.

TERMS & CONDITION :

1. The quotation in **two bid (Technical Bid & Financial Bid)** system should be uploaded in e-procurement only. (**website www.eprocure.gov.in**)
2. Financial Bids should consist of unit price, Excise Duty, Insurance , Packing & Forwarding , Erection & Commissioning, Transportation Charges, Taxes etc.,
3. The EMD should be paid in the form of Demand Draft/Bankers Cheque drawn in favour of the **Director, CSTRI, Bangalore**. The EMD does not carry any interest. **Please note that cheques will not be accepted. Quotation received without EMD will summarily be rejected,**
4. The Supplier shall provide Warranty/Guarantee valid for a minimum period of 12 months from the date of installation of the equipment / machineries. Any defects noticed in the equipment /machineries which is unintentional shall be set right by the supplier free of cost for good performance of the equipments.
5. The equipment should be supplied strictly in conformity of the above specifications, failing which, the equipment has to be taken back at your own cost.
6. Liquidated damages for delay & non supply @ 0.5% will be deducted from the bill per week for not supplying the item within the stipulated time subject to a maximum of 10% of the total cost of the equipment..
7. The performance security equivalent to 5% of the total contract value in the form of Bank Guarantee issued by any Nationalized Bank which shall be valid till three months after the expiry of the Warranty period should be furnished to this Institute within 10 days from the date of receipt of purchase order in the prescribed format.
8. No advance payment will be paid. The payment will be released only after delivery of the equipment in good condition as per our specification, Erection and commissioning
- 9 **The bidders should submit the Bank Details i.e.Bank A/c.No., Bank Name, Branch, IFSC code. Etc. along with quotation**

Yours faithfully,

DIRECTOR