

Sealed Quotations are invited for purchase of 1000kN UTM (Universal Tensile Testing Machine) for Bureau of Indian Standards, Eastern Regional Laboratory, Kolkata.

Details of Specifications of the Equipment (1000 kN UTM) and Terms and Conditions are given below. Last date of receipt of tenders is 16.00 hrs on 25.02.2012

### EQUIPMENT SPECIFICATION

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Equipment Code : AEM 02

Name of the Equipment: UTM (1000kN)

Total quantity required: One  
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Purpose : Primarily to test Tensile strength which includes 0.2 % Proof stress, Yield stress, %Elongation, Total Elongation, modulus of elasticity of Steel & steel products with the provision for test for other metallic & nonmetallic material.

Technical requirements:

Panel cum Computer controlled hydraulically operated servo controlled Electronic Universal Tensile Testing Machine complies with the verification & Testing procedure laid down in IS 1828(Pt-1) and IS 1608 and conforming to the following specification:-

- 1) Range: 0-1000kN- The whole range shall preferably be divided into following scales:
  - i) 0-50kN, Resolution: 2.5N
  - ii) 0-100kN, Resolution: 5N
  - iii) 0- 250kN, Resolution: 12.5N
  - iv) 0-500kN, Resolution: 25N
  - v) 0-1000kN, Resolution: 50N
- 2) Rate of traverse: 0-1000mm/min adjustable or better
- 3) Accuracy: Class1 ( $\pm 1.0\%$ )
- 4) Safety protection: Overload protection & Stroke protection
- 5) Power supply: 3phase, 440VAC, 50Hz
- 6) Control unit: Computer programmed servo control type with standard manual control, elongation rate control, load rate control, strain rate control.
- 7) Accessories:
  - i) Computer with monitor and colour printer with necessary Software for providing graphical representation for all Tensile Test parameters as per IS 1608.
  - ii) Wedge grips (preferably hydraulic) for tensile test to hold round of size upto 60mm, flat of thickness upto 40mm and for stranded wire of diameter 6mm to 21mm and wire rope test attachment
  - iii) Compression plate for compression test.
  - iv) Bend & Rebend Test bending attachment.
  - v) Extensometer to accommodate G.I. from 50mm to 200mm.
  - vi) Mandrels for Bend & rebend Test to test all sizes as per IS 1786 & IS 2062.
  - vii) Drift expansion test attachment
- 8) The machine should be preferably supplied with calibration certificate from a NABL accredited Laboratory.
- 9) Service/repair back up of the equipment shall be available in Kolkata.

### Terms and Conditions for Tenderer

1. The Tenderers are requested to give detailed tender in the forms of two bids i.e.  
Part - A Technical Bid.  
Part - B Financial Bid.
2. The **Technical & Financial Bids should be sealed and sent separately in sealed envelopes & duly super-scribed** (giving Equipment name, technical/financial bid, due date of opening & Ref. No. on the top of the envelope). Such Bids shall remain valid for a period of 120days from the date of opening.
3. Bidders may be required to arrange practical demonstration of equipment/model quoted by them before finalization of order.
4. The Technical Bid [Part A] should accompany complete specification, Manufacturer's name, address and following details:
  - a. Expected life span of equipment and accessories.
  - b. List of pre-installation facilities required for installation and commissioning of equipment and also consumables to be arranged by the Bureau,
  - c. List of the Users in India especially Govt. Labs. /Institutes with complete postal address to whom the similar equipment has been supplied along with their feedback.
  - d. Near locations in India from where after sales services shall be provided along with the name of Servicing Agent.
  - e. The optional and any other essential items/accessories required for the maintenance of the equipment for the next three years.
  - f. Technical Literature of the equipment along with necessary clause wise photograph/drawings, if any
  - g. **Compliance statement vis-a-vis specification, including statement of deviation, if any (Annex-1, attached below)**
  - h. **Delivery Period:** The delivery of the equipment is required to be made within 90 days of receipt of order. If, it is not possible for you to affect delivery within the period, you are required to specify the date by which you can guarantee delivery of the stores.
  - i. **Warranty:** The equipment is to be guaranteed for trouble free performance for a **minimum period of two years after commissioning**. The defects, if any, during the warranty period are to be rectified free of charge by arranging free replacement wherever necessary.
  - j. The Tenderer is required to furnish the **Permanent** Account Number (PAN)/TAN of the firm Allotted by the Income Tax Department.
5. Each tender document shall be accompanied with EMD of 3% of **total cost of the equipment (excluding taxes)**. The demand draft for the EMD amount shall drawn in favour of BUREAU OF INDIAN STANDARDS payable at Kolkata. The sealed envelope containing EMD should be super scribed "EMD" and stapled separately with **the envelope containing the commercial Bids. No disclosure of amount of EMD in Tech. Bid should be done.**
6. Cost of the **items** should be mentioned clearly in the **Financial Bid [Part-B] only. The following details need to be included**
  - a. Price break-up of main equipment and accessories and consumables to be supplied by the party,
  - b. The rates quoted should separately indicate Basic Cost, Excise Duty, sales Tax, Packing & Forwarding charges, Freight, Insurance, VAT etc. Rates quoted should specifically state Sales Tax, Excise Duty Or any other taxes/charges. In absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same shall be entertained. Form C/D shall not be provided by BIS. In case of foreign supplier BIS shall pay Custom Duty.
  - c. Rebate on the quoted price, if additional equipment is procured for any other BIS Lab, and
  - d. The Annual Maintenance Contract charges for next three years after the expiry of warranty period.
  - e. CIF (Carriage Inward & Freight), Kolkata value both by Airfreight and Ocean freight, where applicable.

7. BIS shall pay 90% of the cost after satisfactory installation & commissioning and the Balance of 10% as contract performance security would be paid after expiry of warranty period. In case of foreign suppliers 100% payment shall be made by an Irrevocable letter of Credit established in favour of the supplier through the Punjab National Bank, Manicktala, Kolkata, for the order value provided an unconditional Performance Bank Guarantee valid till 60 days after the warranty period from a Nationalized Bank for 10% of the order value within 15 days of placement of the order is given to us. The Agency Commission to the Indian Clearing Agent will not be paid by the Bureau. The firm has to arrange for it. BIS shall provide Custom Duty Exemption Certificate at the time of Custom Clearance as well as any applicable Custom Duty.
8. Place of Delivery: Head, Eastern Regional Laboratory,  
BUREAU OF INDIAN STANDARDS,  
P-230, CIT Scheme-VII M, Block-W, Kankurgachi,  
Kolkata-700 054.
9. Quotations/bids qualified by indefinite expressions such as 'subject to immediate acceptance' etc. and incomplete quotations are liable to be summarily rejected.
10. In case of foreign quotation, the address of Principals / Manufacturers and their Banker's details should be furnished. The supplier is required to have an import licence for the equipment quoted where applicable as per GOI guidelines
11. All goods shall be inspected by BIS preferably on site and also in the presence of supplier or his authorized representative, when the packages are opened in Labs prior to installation. The decision of BIS shall be binding. Rejected items/goods/stores shall be removed by the supplier at his own cost and risk, within 30 days of receipt of notice for the removal of such goods, and no liability, whatsoever, on the Bureau shall be attached for the rejected/disapproved goods/items/stores.
12. **INSTALLATION: Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter. If the supplier fails to Supply, Install and commission the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of one percent value of the Purchase Order awarded, per every seven days delay subject to a maximum of 10% of the total value of the order and such money will be deducted from any money due or which may become due to the supplier.**
13. The supply of spare parts is to be guaranteed at least for a period of 10 years after the supply of the equipment.
14. The Bureau reserves the right to accept or reject summarily and/or all tenders in whole or part without assigning any reason whatsoever.
15. The Date and Time of opening for Part B (Financial Bid) will be intimated only to technically acceptable/qualified tenderers at a later date.
16. In case of any dispute arising out of this agreement then DG BIS shall nominate any officer of the BIS a sole arbitrator to adjudicate upon the issue involved in the dispute and the provisions of the Arbitration Act shall be applicable
17. All question, disputes or differences arising under, out of or in connection with this Bid document shall be subject to the exclusive jurisdiction of Kolkata Court.

Bureau of Indian Standards  
Eastern Regional Laboratory, Kolkata

Annex- I

**DEVIATION STATEMENT FORM**

- 1) The following are the particulars of deviations from the requirements of the tender document and specifications:

SPECIFICATION CLAUSE	DEVIATION	REMARKS (INCLUDING JUSTIFICATION)

**PLACE:**

**DATE:  
BIDDER**

**SEAL & SIGNATURE OF**

**NOTE: 1. Where there is no deviation; the statement should be returned duly signed and endorsement indicating "No Deviations".**