



Division of Agricultural Engineering
ICAR- Indian Agricultural Research Institute, New Delhi – 110 012

F.No. 141/2018-19/AE

Dated : 14-02-2019

As per list attached

Subject: Online Tender for - Universal Testing Machine-IARI

Sir,

Online bids are invited in two bid system (i) Technical bid (ii) Financial bid on behalf of Secretary, ICAR, New Delhi from eligible bidder for purchase of **Universal Testing Machine**. The submission for above equipment through online is **07-03-2019** upto 1300 hours. The bid will be opened on **08-03-2019** at 1500 hours.

Instructions to the bidder and terms & conditions of tender:

1. The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for the receipt of quotations.
2. The rates quoted shall be for free delivery and installation at the Division/Unit ICAR-IARI, New Delhi – 110 012. However, item/equipment quoted in foreign currency must be quoted on FOB basis and showing price upto CIF.
3. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI.
4. In case the bid is offered in Indian Rupees on FOR value basis than CDEC/DSIR certificate will not be given by the Institute at all. However, GST as applicable will be paid by the Institute as per rule.
5. The successful bidder will have to provide the original proforma invoice from the foreign principal (duly signed in ink), in case of imported item/equipment at the earliest but positively within 15 days of the date of receipt of purchase order, otherwise the purchase order will automatically stand cancelled without any further communication.
6. Full specifications of the article quoted for shall be given in the quotation along with literature/pamphlet/drawing etc. User list of the quoted document may also be additionally provided for reference.
7. If taxes, duties or any other charges over and above the rates quoted leviable, actual percentage of such taxes/duties/other charges should be clearly indicated.

8. If the bid is submitted by the authorized dealer on behalf of the Manufacturer/OEM, then valid authorization certificate of the Manufacturer/OEM must be attached with the bid, otherwise bid will not be considered.
9. As per CVC's guidelines No.12-02-6CTE-SPJ(1)-2/161730 (circular No.3/1/12) dated 13/1/2012, in a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. Further, if an agent submits bid on behalf of the Principal/OEM the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.
10. Supply is to be made by any convenient mode of transport at supplier's risk unless otherwise specified.
11. In case the material is supplied through an authorized agent, manufacturer shall be responsible for the successful installation of the equipment. The manufacturer shall be liable to any penal action for the shortcomings of the authorized agent. Any payment that is to be made separately to the agent if any shall be clearly mentioned in the quotation.
12. The bid should be accompanied with earnest money of **Rs. 30,000/- (Rs. Thirty thousand only)** in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi as mentioned against each of the item/equipment together with the technical bid, in the absence of which the price bid, if any, will not be opened under any circumstances.
13. No interest on security deposit and earnest money deposit shall be paid by the Institute to tenderer.
14. The EMD shall be refunded to the unsuccessful bidders after finalization of the quotation. In case of successful bidder, it can be adjusted towards security deposit which is 5-10% of the order value in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favour of Director, IARI payable at New Delhi and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods costing Rs.1.00 lakhs (Rs. One Lakh) or more. Here would however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (Rs. One Lakh).
15. One year warranty has to be invariable provided by the firm. In case, there is any variation in the warranty period given in the specification of the item/equipment, the warranty period shall be the final as given in the specification.
16. Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate. In case of foreign currency payment shall generally be made through LC directly to the manufacturer.
17. The Director IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
18. Quotations not complying with the above conditions are liable to be rejected.
19. AMC/CMC charges shall not be included for the evaluation of the financial/commercial bids.
20. In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser)
21. The successful bidder has to execute the indented material/items as mentioned in the supply order placed with them within the stipulated period as given in the supply order placed by the Unit/Divisions of this Institute failing which 2% per week and maximum of 10% deduction as liquidated damage

charges will be made from the bill in case the material is not supplied within the given stipulated period.

Document required

1. **GST No.**
2. **Pan Card**
3. **Scanned copy of Earnest Money Deposit (EMD)**
4. **Current Authorization letter issued from Manufacturer/Principal Firm in original**
5. **Literature/pamphlet/drawing etc., along with user list**

Sl. No. Description/ Specification of the Item

Qty. Req.(Approx.)

UNIVERSAL TESTING MACHINE

Specifications:

1. 6 pillar/column type
2. Capacity – upto 600kN
3. Gripping system – hydraulic
4. Resolution – 0.01kN
5. Max clearance for testing: 100-600 mm (tensile); 0-600 mm (compression)
6. Clearance between column – minimum 500 mm
7. Test speed – 0-50 mm/min
8. Computerized data recording and analysis

For Tension Test

Clamping jaws for round specimens 8-16 mm, 13-26 mm, 26-40 mm (1 set each)
Clamping Jaws for Flat Specimens thickness 0-30 mm (1 set)

For Compression Test

Pair of compression plates -220 mm (1 No)
Spherical seating facility for cube test
NABL Calibration certificate in compression mode

For Transverse Test

Table with adjustable roller: 140 mm wide and 50 mm diameter roller
Radius of Punch Tops-16 mm, 22 mm – 1 No each

Data Logger

To measure voltage, current, resistance and frequency and other derived measurements. With real time data acquisition and remote monitoring and control. Logger should come with software for PC for monitoring and analyzing acquired data

System

- LCD display with at least 2 line 16 characters with back light

- Operating Temperature range : -20°C to 60°C
- Display functions – channel data, alarms and system status
- Real Time Clock : resolution $200\ \mu\text{s}$ accuracy $\pm 1\ \text{min /year}$
- External voltage range: 10 to 30Vdc
- Internal Battery : 6Vdc 4Ah lead acid
- Peak Power: 12W (12Vdc 1A)

Analog Inputs

- Linearity : 0.01 %
- 32 channel differential inputs / 48 channel single ended inputs
- Input impedance $> 100\ \text{M}\Omega$ programmable

Analog Output

- 16 bit DAC: voltage 0-10V or current 0-24mA

Sampling Rate

- Maximum sample speed: 40Hz
- Common mode rejection: $>90\text{dB}$
- Line series mode rejection: $>35\text{dB}$

Additional attachments to be supplied with the UTM

1. Electronic extensometer strain gauge type with 2.5 mm extension and gauge length 25 & 50mm.
1 No
2. Bend Rebend Test Attachment – 1No

Asstt. Admn. Officer (AE)

Compliance report

Specifications		
6 pillar/column type	Yes	No
Capacity – upto 600kN	Yes	No
Gripping system – hydraulic	Yes	No
Resolution – 0.01kN	Yes	No
Max clearance for testing: 100-600 mm (tensile); 0-600 mm (compression)	Yes	No
Clearance between column – minimum 500 mm	Yes	No
Test speed – 0-50 mm/min	Yes	No
Computerized data recording and analysis	Yes	No
For Tension Test		
Clamping jaws for round specimens 8-16 mm, 13-26 mm, 26-40 mm (1 set each)	Yes	No
Clamping Jaws for Flat Specimens thickness 0-30 mm (1 set)	Yes	No
For Compression Test		
Pair of compression plates -220 mm (1 No)	Yes	No
Spherical seating facility for cube test	Yes	No
NABL Calibration certificate in compression mode	Yes	No
For Transverse Test		
Table with adjustable roller: 140 mm wide and 50 mm diameter roller	Yes	No
Radius of Punch Tops-16 mm, 22 mm – 1 No each	Yes	No
Data Logger		
To measure voltage, current, resistance and frequency and other derived measurements. With real time data acquisition and remote monitoring and control. Logger should come with software for PC for monitoring and analyzing acquired data	Yes	No

System		
LCD display with at least 2 line 16 characters with back light	Yes	No
Operating Temperature range : -20°C to 60°C	Yes	No
Display functions – channel data, alarms and system status	Yes	No
Real Time Clock : resolution 200 μ s accuracy +/- 1 min /year	Yes	No
External voltage range: 10 to 30Vdc	Yes	No
Internal Battery : 6Vdc 4Ah lead acid	Yes	No
Peak Power: 12W (12Vdc 1A)	Yes	No
Analog Inputs		
Linearity : 0.01 %	Yes	No
32 channel differential inputs / 48 channel single ended inputs	Yes	No
Input impedance > 100 M Ω programmable	Yes	No
Analog Output		
16 bit DAC: voltage 0-10V or current 0-24mA	Yes	No
Sampling Rate		
Maximum sample speed: 40Hz	Yes	No
Common mode rejection: >90dB	Yes	No
Line series mode rejection: >35dB	Yes	No
Additional attachments to be supplied with the UTM		
Electronic extensometer strain gauge type with 2.5 mm extension and gauge length 25 & 50mm - 1 No	Yes	No
Bend Rebend Test Attachment – 1No	Yes	No