



GOVT. COLLEGE OF ENGINEERING AMRAVATI

Near Kathora Naka, Amravati 444604

(An Autonomous Institute of Govt. of Maharashtra)

Towards Global technological Excellence

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Quotation Enquiry Letter

GOCEA/AMD-Purchase / QE /2022-23/3403

Date: 6-9-22

To,

As per List Attached &
College web site

**Subject: Quotation for the supply of SOM Lab Equipment
For Applied Mechanics Department**

Dear Sir,

You are requested to quote your lowest reasonable rates for the following items and send the quotation in sealed cover by Two envelope method (as described in Terms and conditions) so as to reach the undersigned on or before 20 / 09 /2022.

Sr. No	Description/Specification	Approximate Quantity
1.	<p>6 Pillar with Hydraulic Jaw set Universal Testing Machine:</p> <p>6 pillar Fully open front Loading Units with hydraulic wedge grips It consists of a hydraulic cylinder & piston mounted on a robust base. The loading frame consists of an upper Cross head, middle cross head and lower table. The upper cross-head and lower table are fitted on two/four hard chrome plated columns. The middle cross-head is fitted on two threaded columns. A reduction gear motor drives the chain and sprockets fixed at the bottom of the threaded columns for height adjustments. The cylinder and ram are individually lapped to eliminate friction. Axial loading of the system is ensured by provision of a ball seating under the lower table. An elongation scale with a least count of 0.1mm is provided for measurement of deformation of various samples. Tensile test is conducted by gripping the test specimen between the upper and middle cross-heads. Compression, Transverse, Bending and Shear test are conducted between the middle crosshead and the lower table</p> <p>Salient Features</p> <ul style="list-style-type: none">• Simple control to facilitate ease of operation.• Strain measurement at variable speed to cover a wide range of materials adjustable by the manual control valve.• Motor driven threaded columns for UP/DOWN movement of lower crosshead for quick change over of specimen, grips and attachment.• 6 pillar structure with hydraulic jaw grips.• Robust load frame with extremely rigid construction.• Large effective clearance between columns enable testing of standard specimen as well as structures.• Fully open front hydraulic wedge grips make it easy to insert and remove specimens for increased productivity and operator safety.	01 No.

th / o/c

2	<p>Hydraulic System for Universal testing Machine 1000 kN: The power pack has a directly driven pump which generates a maximum pressure of 300 kgf/cm². The hydraulic pump produces a continuous non-pulsating oil flow. Hence the load application is very smooth. A pressure compensated flow control valve is provided which controls oil flow to the main cylinder. This maintains a constant rate of piston movement and hence straining rate is kept constant. This valve is hand operated and gives infinitely variable oil flow to obtain different rates of straining</p> <p>Suitable for operation on 440 V, 50 Hz, three phase, A C supply Power pack motor 2.2kW</p>	01 No
3	<p>Electronic Extensometer strain guage with software for UTM: Gauge length : 25 and 50 mm Max. extension : 2.5 mm Resolution :1 micron Specimen size: 1-32 mm</p> <p>recognises that the most efficient way of testing is with the help of software and the ease of its operation. UTM I.1 has been ergonomically designed to suit the various needs of the customers as per their requirements and operation of the software is extremely user friendly and the features are self-explanatory.</p> <ul style="list-style-type: none"> • Transverse Test for flat sample • Tensile Testing • Extensometer Test <p>The bright, large and prominent display for the load and displacement adds to the readability of the software and hence effortless observation of the online tests</p> <p>The enhanced display of the test screen displays the value of the load and displacement and the online graphs as it is generated during the tests. The selection of the scale on graph enables you to view the graph more prominently on the screen. The extensometer test screen incorporates the results of the normal Load Vs Displacement. Test as well as the Load Vs Extension and Stress Vs Strain online graphical view Simultaneously.</p>	01 No
4	<p>Electronic Panel for UTM:</p> <p>The Load Cell, Encoder are used to measure Mechanical Load, Liner Displacement respectively. The Digital Indicator Comprises of a regulated power supply, excitation source, calibration port, signal conditioner cards, display & keypad. The Digital panel is calibrated to display the load directly in kN, displacement in mm.</p> <p>This includes high precision, sealed in built electronic control panel and very accurate load cell mounted in the loading unit. A stable data acquisition system converts the analog output of pressure transducer into equivalent digital figures.</p> <p>Accuracy and Calibration of Electronic Control Panel</p> <p>Universal Testing Machines are controlled for precision and accuracy during every stage of manufacturing. The machines are calibrated in accordance with BS:1610 and IS standards. UTM comply with grade A of BS 1610 : 1964 and grade 1 of IS : 1828 - 1991. An accuracy of $\pm 1\%$ is guaranteed from 20% of the load range selected to full load. Below 20% of the selected range the maximum permissible error is 2% of the full load reading.</p>	01 No

TERMS AND CONDITIONS

1. **Submission of Quotation:** Two Envelope method of submission of quotation should be followed. i.e. the Sealed Envelope of quotation should consists of two envelope viz., Envelope 1 (Technical Bid) and Envelope 2 (Commercial Bid).



Envelope 1 (Technical Bid) shall consist of following:

- 1 Registration Certification of the manufacturer / Supplier / shop Act
- 2 If supplier is not manufacturer, then Certificate of authorised dealership
- 3 G.S.T. Registration Certificate
- 4 Proof of payment of G.S.T. up to March 2021
- 5 Proof of manufacturing / supplying the items in the quotation (List of Supply orders of other organisations / establishments).
- 6 Specifications of the Goods along with Product catalogue / leaflet / information brochure, photographs of the Equipment / Goods / Furniture.
- 7 Undertaking regarding quality and after sales service for the warranty period.
- 8 Conditions of supply, if any, should be properly and explicitly mentioned in the quotation.

Envelope 2 (Commercial Bid) shall consist of following:

- 1 All inclusive Rates of Goods / Items / Equipment /Furniture, clearly mentioning the basic rates and various taxes. The rates shall be preferably mentioned both in words and figures.
- 2 All prices must be for destination at Government College of Engineering, Amravati and at specified place/ Laboratory /Department.
- 3 All prices must be for inclusive of Packing forwarding, freight & insurance.
- 4 All prices must be for inclusive of Installation, commissioning charges testing and training, if required.

The Reference no. of this letter and last date of submission of quotation must be mentioned on the envelope containing quotation.

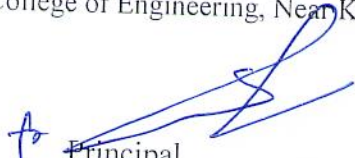
The bidder unable to fulfil the requirements of Technical Bid shall be considered as Invalid and commercial bids of such bidders shall not be opened and considered for evaluation / comparison.

2. **Validity:** The rates must be valid for 60 days from the date of opening of quotations.

The undersigned reserve the right, without assigning any reason, to;

- i) Cancel/ reject the entire lot of quotation
- ii) To extend the last date for submission of quotation

Address:- Principal, Government College of Engineering, Near Kathora Naka, Amravati 444604.


Principal
Govt. College of Engineering, Amravati

RAKARLE

JFLa


Principal
Govt. College of Engineering, Amravati

