

Shri Mata Vaishno Devi University, Katra, Katra, 182320

## INVITATION LETTER

Package Code: TEQIP-III/2019/JK/mvdu/82

Current Date: 17-Mar-2020

Package Name: Automatic Universal testing machine

Method: Shopping Goods

Sub: INVITATION LETTER FOR Automatic Universal testing machine

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure I,

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Universal Testing Machine- UTM	1	SMVDU Katra	Yes

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme [TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. **Quotation**

- 3.1 The contract shall be for the full quantity as described above.
- 3.2 Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
- 3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit Price.
- 3.4 Applicable taxes shall be quoted separately for all items.
- 3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- 3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **45**days after the last date of quotation submission.

6. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which

- 6.1 are properly signed; and

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6.2 Confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of Contract.

8.2 *The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be Incorporated in the purchase order.*

9. Payment shall be made in Indian Rupees as follows:

Payment Description	Expected Delivery Period (in Days)	Payment Percentage
Satisfactory Delivery & Installation	30	10
Satisfactory Acceptance	30	90

10. Liquidated Damages will be applied as per the below:

Liquidated Damages Per Day Min %: N/A

Liquidated Damages Max %: N/A

11. All supplied items are under warranty of **36** months from the date of successful acceptance of items and AMC/Others is .

12. You are requested to provide your offer latest by **15:30** hours on **17-Apr-2020**.

13. Detailed specifications of the items are at Annexure I.

14. Training Clause (if any) **Yes**

15. Testing/Installation Clause (if any) **Yes**

16. Performance Security shall be applicable: **0%**

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17. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
18. Sealed quotation to be submitted/ delivered at the address mentioned below, **Shri Mata Vaishno Devi University, Katra, Katra, 182320**
19. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)  
Name & Designation

*RJP*  
*17/3*  
Dr. Rakesh Kumar Jha  
TEQIP-III Procurement Coordinator  
Shri Mata Vaishno Devi University  
Katra Jammu (J&K)- 182320

Annexure I

Sr. No	Item Name	Specifications
1	Universal Testing Machine- UTM	<p>Specification for Universal Testing Machine –Computerised (1000 kN)</p> <ol style="list-style-type: none"> <li>1. The computerised UTM should be with hydraulic pumping system and electric control panel.</li> <li>2. The UTM should be able to perform tensile, compression, shear, and flexure tests on specimens of wide range of materials. General Specifications:</li> <li>3. Six pillar structure with hydraulic jaws,</li> <li>4. Capacity 1000 kN with a measuring range of 20-1000 kN and min. resolution 0.01 kN, speed precision <math>\pm 5\%</math> accuracy of <math>\pm 1\%</math>.</li> <li>5. It should have features like strain measurement at variable speed to cover a wide range of materials, digital indicator, software, electrical controls including the temperature controller, high reading accuracy with robust load frame to hold the different attachments, anti-vibration mountings with frame, all standard accessories and grips as specified below, motor driven threaded columns for up/down movement for change of attachments and grips, Power Supply- 440V, three phase.</li> <li>6. The maximum clearance for tensile test should lies in the range of 50-650mm and maximum clearance for compression test should lies in 0-600 mm range.</li> <li>7. The clearance between columns should be 650mm and Ram stroke is 250mm. The straining/piston speed at no load should be 0-50mm/min.</li> <li>8. For tension test the clamping jaws for round specimens are in 8-16mm, 13-26mm, 26-40mm, (40-80mm) specification and clamping jaws for flat specimens thickness is in (0-40 mm) range.</li> <li>9. The flat specimen width for tension test should be 70mm and for compression test the pair of compression plate's diameter of circular platen should be 220mm.</li> <li>10. For the transverse test the width and diameter of rollers should be 140mm and 50mm respectively.</li> <li>11. In the transverse test the maximum clearance between supports should be 600mm and radius of punch tops comes should come in two different specifications i.e. in 16mm and 22mm.</li> <li>12. Electronic Control Panel/System: The machine should have microprocessor based electronic panel Rotary encoder for crosshead displacement/extension indication, LAN card for PC interface, Data entry for specimen dimension, serial number, gauge length. Digital Display system with RS232/USB for communication with LCD Display and compatible with Windows system.</li> <li>13. The system must have Universal ports. The results must be displayed on high resolution monitor which must include Load vs Displacement curve, maximum displacement, UTS, % elongation, Young's Modulus &amp; Proof stress and other relevant parameters for analysis.</li> <li>14. Data, readings and graphical representation should be stored in the file which can be retrieved on demand.</li> <li>15. The equipment should be provided with Robust Standalone and real time data acquisition system with Universal Ports, 18 Bit Resolution, more than 10 Analogue channels and 12 flexible digital channels, 8 Bi-directional channels for state &amp; count input and state output. Isolation Dual Channel min 100 Volts.</li> </ol>

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16. Interface all types of sensors. The data logger should have Accuracy: 0.1% of full scale, Linearity 0.01 % T (Demonstration of Data Acquisition is required with basic sensors before installation of UTM).

17. The equipment to be supplied with 64-bit Laptop and Laser printer with latest configuration to support the equipment software.

18. Software: Compatible with windows, precise controlling, operation & Data Acquisition, storage, processing, analysis and reporting. Setup of software must also be provided.

19. Accessories: The Equipment and Software should be provided with relevant attachments to conduct Tensile Test, Compression Test, Transverse test for flat specimen, Bend-Rebend Test, Shear Test and Extensometer.

20. The extensometer test screen should incorporate the results of the normal load vs Displacement Test as well as the Load vs Extension online graphical to view simultaneously.

21. The equipment to be provided with signal conditioner, strain gauges and temperature gauges.

22. Electronic extensometer strain gauge type with 2.5mm extension and gauge length 50mm Bend Test attachment 180, flexural test attachment, Shear Test attachment 6, 8, 12, 16 & 20mm diameter.

23. Shear test attachment 25, 30, 35 & 40 mm diameter. Gripping device for threaded and shouldered specimens, Pair of split ring for shouldered specimen 6,8,10,12,16,18,20mm (per set).

24. Additional Requirements: Literature, datasheet of UTM and all accessories showing the working and handling of the same.

Calibration, installation of equipment with demonstration of all types of functioning of equipment, accessories and software.

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**FORMAT FOR QUOTATION SUBMISSION**  
(In letterhead of the supplier with seal)

Date: \_\_\_\_\_  
To: \_\_\_\_\_

Sl. No.	Description of goods \ (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex-Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
<b>Total Cost</b>							

Gross Total Cost (A+B): Rs. \_\_\_\_\_ (Amount in figures)

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ amount in words) within the period specified in the Invitation for Quotations. We confirm that the normal commercial warranty/ guarantee of \_\_\_\_\_ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier  
Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Contact No. \_\_\_\_\_