

**University College of Engineering and Technology,
Karni Industrial Area, Pugal Road,
Bikaner-334004**

INVITATION LETTER

Package Code: TEQIP-III/RJ/gceb/93

Date: 04-Jul-2019

Package Name: Mechanical Material Testing Lab

Method: Shopping Goods

To,

Sub: INVITATION LETTER FOR Mechanical Material Testing Lab

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	Torsion Testing Machine	1	University College of Engineering & Technology, Bikaner	SITC in Mechanical Engineering department of UCET, Bikaner
2	Brinell's Hardness Testing machine	1		
3	Rockwell hardness testing machine	1		
4	Impact testing machine	1		
5	Fatigue testing machine	1		

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 **55** 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
 - 6.2 Confirm to the terms and conditions, and specifications as **per Annexure - I**
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:

Satisfactory Acceptance - 100% of total cost
10. Liquidated Damages will be applied as per the below:

Liquidated Damages Per Day Min % :0.01
Liquidated Damages Max % : 10
11. All supplied items are under warranty of **36** months from the date of successful acceptance of items and AMC/Others is **NA**.

12. You are requested to provide your offer latest by **12:00** hours on **20-Jul-2019**. **Quotations received will be opened on same day at 13.00 hours.**
13. Detailed specifications of the items are at Annexure I.
14. Training Clause (if any) **As per Annexure I**
15. Testing/Installation Clause (if any) **SITC in Mechanical Engineering Department of UCET, Bikaner**
16. Performance Security shall be applicable: **05 %**
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, **University College of Engineering and Technology, Karni Industrial Area, Pugal Road, Bikaner-334004**
19. We look forward to receiving your quotation and thank you for your interest in this project.

**Nodal Officer – Procurement
UCET, Bikaner**

Annexure – I

S. No.	Name of the Machine	Technical Specification	Quantity
1.	Torsion Testing Machine	<ul style="list-style-type: none"> ▪ Max. Torque Capacity: 100 N-m ▪ Torque Ranges: 0-100(preferable) or 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 N-m ▪ Torsion Test Speed: 0.1-0.5 RPM (adjustable) ▪ Clearance Between Grips: 0-600 mm ▪ Grips for Flat Thick: 5-15 mm ▪ Grips for Round specimen ▪ Specimen Diameter: 0-20 mm ▪ Specimen Width variable up to 30 mm ▪ Manual loading arrangement available ▪ Graph of the test can be made available ▪ Design must be robust and ergonomic ▪ Should perform and result in conformance to BIS/IS standards ▪ A detailed Technical Manual for the operation of the Machine showing the complete demonstration of the test performed ▪ three specimen samples are required ▪ Fixtures of the specimen mounting must be available 	1
2.	Brinell's hardness testing machine	<ul style="list-style-type: none"> ▪ Testing machine with testing range 500-3000 kgf ▪ Test Force should be 62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 2000, 2500 and 3000kgf ▪ Maximum Height of specimen should be 250 mm ▪ Magnification of microscope should be 15X ▪ Throat Depth should be 140-150 mm ▪ Minimum Reading grade of the drum wheel of the microscope should be 0.0025mm ▪ Standard Accessories with the machine should be - <ul style="list-style-type: none"> (i) Large, Small and Vee Shaped Tables of each category (ii) Indenter of diameter 2.5mm, 5mm and 10mm each (iii) Microscope of 15X magnification ▪ Standard Hardness Test Block: HBW750/5 (150-250), HBW 3000/10 (150-250) ▪ Power should be AC 220V/50-60Hz ▪ Design must be robust and ergonomic ▪ Should perform and result in conformance to BIS/IS standards 	1

		<ul style="list-style-type: none"> ▪ A detailed Technical Manual for the operation of the Machine showing the complete demonstration of the test performed. 	
3.	Rockwell hardness testing machine	<ul style="list-style-type: none"> ▪ Test Load of 10kgf pre load and 30,45,60,100 and 150kgf main load ▪ Minor load auto-brake system ▪ Resolution: 0.1HR(adjustable) ▪ Major Dwell Time 1.0 to 50.0 ▪ Minor Dwell Time 0.1 to 50.0 ▪ USB and RS232 data ports for easy data transfer to MS Excel or other applications ▪ Additional indenter and standard test block. ▪ Power Supply- 240V AC 60/50 Hz ▪ Design must be robust and ergonomic ▪ Should perform and result in conformance to BIS/IS standards ▪ A detailed Technical Manual for the operation of the Machine showing the complete demonstration of the test performed 	1
4.	Impact testing machine	<ul style="list-style-type: none"> ▪ Effective weight: 20-25 kg ▪ Digital & Mechanical type (Two in one) ▪ Max. Permissible loss by friction & windage 0.5 % of Impact Energy ▪ Min. Scale Graduations 2 J for mechanical, 0.5 J for digital ▪ Pendulum Impact energy 300-400 J forCharpy Test, 170-200 for Izod Test ▪ Strike Velocity of pendulum 5.0-5.5 m/s forCharpy Test, 3.8 for Izod Test ▪ Distance of axis of hammer: 800-850 mm ▪ Design must be robust and ergonomic ▪ Should perform and result in conformance to BIS/IS standards ▪ A detailed Technical Manual for the operation of the Machine showing the complete demonstration of the test performed and about the software used. ▪ three specimen samples are required ▪ Fixtures of the specimen mounting must be available 	1
5.	Fatigue testing machine	<ul style="list-style-type: none"> ▪ Maximum bending moment: 200 Kg.cm ▪ Rotating speed: 4000-4500 RPM ▪ Bending moment adjustable: 0-200 Kg.cm ▪ Testing dia. of specimen upto: 10 mm ▪ Gripping dia. of specimen upto: 15 mm 	1

		<ul style="list-style-type: none"> ▪ Accuracy of applied bending moment:±0.5% ▪ Digital counter: 10 digits ▪ Power Supply: 3 phase power supply (430 V) and 0.5hp ▪ Should perform and result in conformance to BIS/IS standards ▪ A detailed Technical Manual for the operation of the Machine showing the complete demonstration of the test performed and about the software used. ▪ three specimen samples are required ▪ Fixtures of the specimen mounting must be available 	
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Special Terms and conditions

- The bidder should submit the proof that the manufacturer manufactures the equipment/apparatus as per the required testing standards BIS/ ASTM standards.
- The bidder should submit the NABL accredited lab testing and calibration certificate for the scope of the experiments to be performed on the machine.
- The bidder/manufacturer will ensure the traceability (source of calibration) of the calibration unit to NPL, India.
- The bidder should provide details of service center and information on service support facilities/escalation service matrix that would be provided after the warranty period.
- The bidder should furnish detailed technical description and original literature of the Machine.
- The bidder should arrange for pre dispatch inspection of the machine before the final delivery if suggested by the department/institution.
- The Manufacturer should have trained and qualified customer support staff with ample experience in the required field. The details of the same should be provided.
- The bidders should submit the proof of supplying the required items to the reputed institutions like IIT, NIT and other TEQIP III funded colleges in the last three years.
- The bidder should provide undertaking regarding installation / commissioning, and after sales service of the instruments and training/ demonstration to at least two persons of the Lab/Department of the institution.
- Certificate to the effect is required to be submitted by the bidder undertaking that the “price quoted is not more than the cost of the equipment (with same / similar specifications)” which was sold to other Govt. organizations, Universities and institutions during last one year.

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To: _____

Sl. No.	Description of goods \ (with full Specifications, Make and Model)	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)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (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. _____