



SHIVAJI UNIVERSITY, KOLHAPUR

Department of Technology

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A
Accredited By NAAC

INVITATION FOR QUOTATION

TEQIP-III/2019/dtsk/Shopping/16

05-Feb-2019

To,

Sub: Invitation for Quotations for supply of Goods

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	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	EXPERIMENTAL MODELS	1	60	Department Of Technology, SUK	yes
2	Servo Shake Table (For Random Vibrations And Earthquake Simulation)	1	60	Department Of Technology, SUK	yes
3	Shake Table instrumentation for measurement of Shake Table Vibrations	1	60	Department Of Technology, SUK	yes
4	VERTICAL SHAKE TABLE	1	60	Department Of Technology, SUK	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, initialing, 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
 - 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:

Delivery and Installation - 90% of total cost

Satisfactory Acceptance - 10% of total cost

10. All supplied items are under warranty of **36** months from the date of successful acceptance of items.

11. You are requested to provide your offer latest by **18:00** hours on **20-Feb-2019** .

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

13. Training Clause (if any) **yes**

14. Testing/Installation Clause (if any) **yes**

15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.

16. Sealed quotation to be submitted/ delivered at the address mentioned below,

17. We look forward to receiving your quotation and thank you for your interest in this project.

(Authorized Signatory)

Name & Designation

Annexure I

Sr. No	Item Name	Specifications
1	EXPERIMENTAL MODELS	1.Three Storey Frame- Shear Building Model 2.Vibration Absorber Model 3.Vibration Isolation Model 4.One Storey Frame With Planar Asymmetry-Torsion Building Model 5. Two Span Simply Supported Beam Model 6.Soil Model-Soil Amplification 7.One Storey Frame-Small 8. Liquefaction Model 9.Four Storey Frame With Stiffeners-Soft Storey Model 10.One Storey Frame With Stiffeners 11.Four Storey Frame-Weak Storey 12.Water

		Tank
2	Servo Shake Table (For Random Vibrations And Earthquake Simulation)	<p>Horizontal Base Motion, Single Axis, G Value: 1 g, Maximum payload : 50 kg, Sliding table dimension : 500mm x 500 mm, Table Actuation by Servo Actuator with Actuation Mechanism : Precision Multi Start Roller Screws with Accuracy of 0.01mm, Motor : Servo Motor with the Control Accuracy of 0.05 Deg or better Drive : Servo Motor Drive, Control panel Should Have All Basic Functions And Safety Features, Over Travel Protection :Non Contact Type Electronic Switches with accuracy of 0.01mm, Emergency Stopping :By Electronic Trigger, Motion Controller :Electronic Single Axis Expandable type to Multi Axis, Frequency 0 -15 Hertz, Velocity : 0 to 300mm/sec Variable, Natural Frequency of Equipment Beyond 200 Hertz, Resolution For Frequency: 0.05 Hertz (Variable), Frequency Control : 1%, Amplitude : 0 to 200 mm (+/- 100mm), Amplitude Resolution : 0.01 mm, Base Table Bearings : Linear Bearings Having Tolerance of 0.01mm, Base Table Bearing Shafts : Linear Shaft Hard Chrome plated and ground, Types of Base Motions : Sine, Sine Sweep, Random (Earthquake), Triangular/Square etc., Data Feeding : User should be able to feed any Earthquake Data Available on Internet and should be able to create and feed user defined time histories also Control Software : Should be able operate the Shake Table in</p> <p>i. Manual Mode For Impact with ion of amplitude and Velocity. ii. Cyclic Mode for Sine, Square, Triangular and Ramp with ion of Amplitude and No of Cycles. iii. Earthquake Mode, where in user can feed earthquake time histories iv. Sine Sweep Mode , both in increasing and decreasing mode with target frequency v. There should to be FFT Option available in the control software itself.</p>
3	Shake Table instrumentation for measurement of Shake Table Vibrations	<p>Accelerometers (MEMS TYPE: g value: $\pm 5g$, Sensitivity: 300mV/g, Frequency :150 Hz, Type :MEMS, Size: 16 x 16 X 12 mm Body: Aluminum Enclosed, Three Axis (X,Y,Z)): 4 Nos., Data Acquisition System 4 Channel Tri-axial Data Acquisition System, Analog Bandwidth of 100 Hz, 16 Bit ADC Dynamic Range, Sampling frequency of 2 KHz, Acceleration up to $\pm 5g$, Sensitivity of 300mV/g, Frequency estimation within 0.1 to 0.5Hz, DC input coupling, Digital filter with Pass band and Taps setting, Data</p>

		<p>logging in CSV format, Continuous and Timed operation, USB Communication to Host, Archived Data Visualization, Offline Data storage for Analysis, Sensors specifically designed to suit low frequency applications, Input Supply protection upto 32 V, High Performance 32-bit DSP Architecture, Accelerometer Signal Conditioning and hardware filtering for noise reduction, Supply voltage protection against the sudden Surges and Voltage variations, Industrial MIC type connectors with threaded lock.) - 4 Channel Type:1 No, FFT / Vibration Analyzer and Software (High Performance 16/24 bit, Accelerometer Signal Conditioning and hardware filtering for noise reduction, User friendly GUI based application for easy operation Time stamped Auto Data Archival, Real time Measurement and Plotting of Acceleration, Velocity and Displacement, Provision for ion of Channels And Axis of Measurement, Time and Frequency domain Plots, Provision for time and Sampling Scaling Factor, Online and Off Line FFT Plotting with other plots like BODE Plots etc., Simultaneous Data Collection and Plotting, Ready-to-measure application software, Real time data visualization, Sensors specifically designed to suit low frequency applications at least upto 0.1 Hz in the software, User friendly GUI based application for easy operation, Time stamped Auto Data Archival Online and Offline data Analysis, Data Recording with respect to variable time band and fixed time bands, Averaging of Data And Plotting with able Spectrum Plots.): 1 No.</p>
4	VERTICAL SHAKE TABLE	<p>Vertical Base Motion, Single axis, Maximum payload :30 Kg, Sliding table dimension 400mm x 400 mm, TEFC TYPE Motor, Table Actuation by Cam and Connecting Rod, Electronic Variable Drive: Vector Control Type, Control panel with Push Buttons For Frequency Increase/decrease and Reset, Frequency: 0-25 Hertz, Resolution For Frequency: 0.05 Hertz (Variable), 1% Frequency Control, Amplitude: 0 to 10 mm, Amplitude Resolution: 1 mm, Variation Absorption Mechanism: By Flywheel, Amplitude Change Mechanism by Dual Eccentric Cams, Base Table Bearings: Rotary Bearings with 0.01mm, Five Pillar Type Construction, Viscous Dampers: 5 Nos., Amplitude Change Mechanism by Eccentric Cam and tool.</p>

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)
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: _____