

# NOTICE INVITING QUOTATION (NIQ)

**Date:** 12/02/2014

Sealed quotations on company letterhead are invited from reputed manufactures in India, abroad or their authorized suppliers/ dealers and service agents in India for the supply of the *Servo-controlled hydraulic actuator (500 kN capacity) and controller cards*. The quotation must provide detailed information of the configuration and specifications of the items as well as price and terms and conditions of the payment. The quotation should mention the total cost of equipment, delivery, installation and commissioning and demonstration at IIT Delhi site.

The quotation should be submitted on or before 6<sup>th</sup> March, 2014 by 5:00 PM in the office of the **Head, Department of Civil Engineering, Room No. 221, Block No. IV, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110 016 (INDIA)**. The validity of the submitted quotation must extend up to at least three months. **Interested parties are required to submit their technical and financial bids in separately sealed envelopes and marked respectively as "Technical Bid" and "Financial Bid" on the outside.** The two envelopes should be enclosed inside a single large envelope and marked, "**ATTN: Dr. Dipti Ranjan Sahoo, Sealed Quotation for Servo-controlled hydraulic actuator (500 kN capacity) to be opened by Purchase Committee**".

Sr. No.	Item Name and Specifications	Quantity
1.	<b>Structural Actuator Assemblies</b> <b>1.1 Rated flow capacity: 10 gpm (37 lpm)</b> - Four port servo-valve; Two stage, Four way operation <b>1.2 Axial Load Cell</b> - Full Scale: 500 KN; Ranges: +/-Full Range; Polarity: COMPRESSION is Positive <b>1.3 Actuator (Stroke= 500 mm; Tension = 445 kN, Compression= 650 kN)</b> - Single-ended heavy duty, fatigue-rated force generators targeted at long stroke - Mid-level performance dynamic structural applications - Compatible with MTS' feedback and control components - Performance ideal for low frequency testing and simulation applications - Low internal friction for reduction in hydraulic power and distribution - Compatible with MTS accessories - Tough polymeric Duralon bearings - High performance double seal arrangement and drain line to protect from oil leaks - Polane paint and chrome piston rod protects actuator surfaces from environmental attack - Central axial placement of optional displacement transducer for higher accuracy <b>1.4 Temposonics displacement transducer</b> <b>1.5 Swivel Assembly – Base and Rod ends (500 kN capacity)</b>	01 No.  01 No.  01 No.           01 No. 01 Set
2.	<b>Specifications for Hydraulic Distribution System</b> <b>2.1 Hose Set 15m (50 ft) long</b> - ORFS to 37 deg. JIC -12 pressure, return, -8 and -6 drain <b>2.2 Hydraulic Service Manifold OPTIONS</b> - Additional Sub-station Module	01 Set  01 No.
3.	<b>Specifications for Electronic Control System</b> <b>3.1 System Cables</b> - Ground Cable, 25ft / 7.5m - Single Servovalve Cable, 25ft / 7.5m - Temposonic Transducer Cable, 25ft / 7.5m - Load Cell Cable, PT, 25ft / 7.5m - HSM Cable, Hi /Low, 25ft / 7.5m <b>3.2 Components for Teststar-IIM (TSIIM) controller</b> TSIIM Components to control new Actuator: - 493.40 I/O Carrier #100-003-854 - 493.14 Valve Driver #100-109-855 - Two 493.25 DUC's #100-207-810	01 Set          01 No.

**(P.T.O)**

**NOTES:****Terms of Conditions:**

- A complete set of Manuals for operation, maintenance and safety should be provided. All Documents and Manuals should be in English language.
- Documentation related to guarantee/warranty of equipment to be provided in the name of IIT Delhi.
- Each of the essential specification needs to be responded. Bidder should also provide the timeframe of the delivery. Failure to respond to any essential specification can lead to disqualification.
- Vendor should have supplied at least 10 nos. of similar equipment within India. A detailed reference of supply of equipment must be provided along with the bids. Any negative comments from any one referred would disqualify the bid. IIT Delhi reserves the right to interact/ visit with the referred customer as per its convenience.
- The cost should include installation, deputation of competent engineers for installation and systems required for smooth running of the equipment.
- Pre-installation requirements, if any, should be mentioned along with their detailed technical specifications. All these items should be provided within 2 weeks of Supply Order placement so that IIT Delhi can prepare the installation requirements well in time.
- Vendor is required to supply, install and ensure proper commissioning of the equipment within 30 days of the Supply Order.
- The supplier should demonstrate the performance of the equipment to the specifications by conducting trial tests at the Structures Laboratory.
- The cost should be FOB basis in case of imported items.
- Comprehensive warranty of one year is required.
- The Institute reserves the right to accept/ reject any/ all the offers without assigning any reason whatsoever.