NOTICE INVITING QUOTATION (NIQ)

Date: 26-02-2009

Sealed quotations on company letterhead are invited from reputed manufactures from India or their authorized suppliers / dealers and service agents in India for the supply of the equipment mentioned in this document.

The quotation must provide detailed information of the configuration and specifications of the items as well as price (**in Indian rupees only**) and terms and conditions of the payment. **The quotation should mention individual unit cost of each of the components as well as total cost of delivery, installation and commissioning as well as full demonstration at IIT Delhi site**. The Cost should be CIF New Delhi. **Comprehensive warranty of three years is required.**

The quotation should be submitted on of before 19th March, 2009 by 10:00 am in the office of **Head, Department of Civil Engineering, Room No. 221, Block No. IV, Indian Institute of Technology Delhi, Hauz Khas, New Delhi- 110016 (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 envelops and marked, **"ATTN: Dr. Supratic Gupta, Sealed Quotation for "Digital Servo hydraulic Controller 4 Channel – 4 Station configuration" To be opened by Purchase Committee".**

The Bidder is required to provide bid security through a bank guarantee of Rs. 70,000/- valid until 30 June 2009 in the technical bid.

The Institute reserves the right to accept/reject any/all the offers without assigning any reason whatsoever.

S. No.	Item Name and Specifications	Quantity
1.	**Digital Servo hydraulic Controller 4 Channel – 4 Station configuration** Digital Controller, for Multi-channel / Multi-Station Operation of the Actuator Systems: - The controller should operate with 230 +/-10 V, 50 **Hz** power supply. - Should be complete with machine control and data acquisition system - Should be designed to interface with a PC through latest version of USB communication for primary control, feed back control , pump control etc - A digital servo-loop update of at-least 5 kHz or more to ensure high performance and response fidelity. - The required signal conditioners for control/readout of load, stroke & strain transducers should be of 24 bit or more. 16-bit data acquisition and a digital 32 bit waveform synthesizer with sine, triangular and pulse waveforms from 0.001 to 200 Hz are required. - The application software for real-time control of the test system should be provided with a set of user-friendly panels for console operations, calibration, data acquisition, safety limit interlocks and servo-tuning. Provision to change the control mode depending on the application - The computer for controlling the system should be from **ISO Certified** manufacturer make with latest configuration with minimum Intel Pentium IV processor (3 GHz or more) compatible with application hardware and software of the equipment with 1.0 GB RAM or better, TFT Monitor 19" or more, DVD writer, network adapter card, at least USB ports, keyboard and optical mouse. All softwares should be licensed and original. All application softwares should run under Microsoft windows XP / Vista	01 number

	environment. Latest licensed antivirus software with one year validity or more shall be provided. - Software should be capable of conducting generating standard test wave forms and should allow block programming for generating custom test profiles. - The system should provide flexibility in data acquisition and allow exporting of the test data into any commercially available spreadsheet environment (like MS Excel).	

NOTES:

(1) All Documents & manuals should be in English

(2) Each of the essential specification needs to be responded either in range or any applicable answer. Bidder should also provide the time frame of delivery. Failure to respond to any essential specification can lead to disqualification.

(3) Technical bid not accompanied by bank guarantee will be disqualified.

(4) Vendor should provide reference of supply of equipment within India or outside of similar equipment. Any negative comments from any one referred would disqualify the bid. IITD reserves the right to interact/visit with the referred customer as per its convenience.

(5) **Installation, Commissioning and terms of conditions**: The quoted cost should be in Indian Rupees including taxes and freight to IIT Delhi. Cost should include design of installation (IITD will bear the material cost for installation), deputation of competent engineers for installation (Labor cost will be born by IITD only) and commissioning of the equipment with all accessories at user's site. Necessary cooling systems required for smooth running of the equipment should be specified in pre-installation requirements like chillers, motors etc., along with their detailed technical specifications. Also specify requirement of electric power and water etc. All these items should be provided within 1 month of order placement so that IITD can prepare the installation requirements well in time. Vendor is required to supply, install and text the equipments within 6 months of the order.

The supplier should demonstrate the performance of the equipment to the specifications by conducting trial tests. Complete set of manuals for operation, maintenance and safety along with circuit/block diagrams should be provided.