Notice Inviting Quotation

NIQ No. IITD/Civil (Store)/2014-15 Date: 30-06-2014

Department of Civil Engineering, IIT Delhi wishes to purchase a Transducer Pair with Pulser-Receiver Unit with specifications described below. Technical & Commercial bids (in two separate sealed envelopes Marked - Quotation for Transducer Pair with Pulser-receiver Unit) should reach the following Address on or before 16-07-2014 by 5-00 PM.

Pulser Receiver Specifications:

Pulser:
- Negative Square Pulse Generator
- Option for variation of pulse width – starting from 100 kHz and upto 10 MHz
- Option for variation of pulse voltage amplitude – between 100 and 500 V
- Pulse repetition rate – Minimum 0.1 kHz, Maximum 5 kHz
- Pulser Receiver circuit should support both through transmission (bi-static) and pulse echo mode
- Synchronization capability with an oscilloscope

Receiver:
- Bandwidth of receiver circuit – Minimum 1 kHz; Maximum limit should be at least 35 MHz
- Receiver voltage gain switch (both +ve for amplification and –ve for reduction) for output should be there
- Option for external trigger input
- High pass filter and low pass filter systems should be there for filtering out low and very high frequency noise
- Noise level < 70 µV peak to peak

Transducer Specifications:
- Center Frequency: 100 kHz approx.
- Wide band
- Suitable for ultrasonic experiments on concrete and/or cement mortar samples
- Should have protective front plate for protection against rough surface of the concrete medium
- Should have back plate for attenuation of the ringing of the piezo element
- Should have provision for right angled BNC connection
- Suitable BNC connector cable for connecting the transducers to the pulser-receiver circuit

Terms & Conditions
- A compliance sheet in tabular form should be provided by the vendor showing that the instrument clearly conforms to the above mentioned specifications. If a compliance sheet is not furnished, the bid would be subject to rejection.
- Separate technical and commercial bids are required to be submitted in separate sealed envelopes.
- Please quote prices at FOB basis in case of prices in foreign currency.
- Quotations in Indian rupees should clearly mention installation & delivery charges.
- Quotation should be valid for three months.
- A minimum of 1 year comprehensive warranty of the equipment is required.
- Payment will be released after installation as per Institute rules.
- Order must be delivered and installed within 4-6 weeks of receipt of order.
- Proprietary certificate of the product should be attached along with the technical bid.
- Institute reserves the right to accept/reject any or all quotation without assigning any reason.

**Name and Address for Correspondance:**

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