



**OFFICE OF THE SUPERINTENDING ENGINEER
RESEARCH CIRCLE
IRRIGATION RESEARCH INSTITUTE
ROORKEE-247667**

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NATIONAL COMPETITIVE BIDDING FOR

(Two-Envelope Bidding Process with e-Procurement)

e-Tender Notice No. 19/SE(R)/ e-Quotation/2020-21 dated 08.01.2021

Superintending Engineer (Research Circle), Irrigation Research Institute, Roorkee on behalf of “Governor of Uttarakhand” invites item-wise rates through e-Tender for “*Supply and Installation of Ultrasonic Pulse Velocity Test Apparatus at Irrigation Research Institute, Roorkee*” under “Two Bid System”. The details of work are as mentioned below:

S. No.	Name of work	Quantity	Validity of Tender	Period of completion
1	2	3	4	5
1	SUPPLY AND INSTALLATION OF ULTRASONIC PULSE VELOCITY TEST APPARATUS AT IRRIGATION RESEARCH INSTITUTE, ROORKEE	01 No.	120 Days	1.5 Months

Key Dates

1.	Bid Reference	:	19/SE(R)/ e-Quotation/ 2020-21 dated 08.01.2021
2.	Date of calling	:	08.01.2021
3.	Date of online publication	:	11.01.2021 10:30 AM
4.	Date of commencement of downloading of bid document	:	11.01.2021 10:35 AM
5.	Last date for seeking clarification, if any.	:	19.01.2021 5:00 PM
6.	Bid Submission Start Date	:	29.01.2021 3:00 PM
7.	Last date for down loading of bid document from www.uktenders.gov.in	:	11.02.2021 4:15 PM
8.	Last date and time for bid submission/uploading of bid on www.uktenders.gov.in	:	11.02.2021 4:15 PM
9.	Time and date of opening of Technical Bids	:	11.02.2021 4:45 PM
10.	Place of opening of bids and address for communication	:	Office of the Superintending Engineer, Research Circle, Irrigation Research Institute, Roorkee-247667 (Uttarakhand)

For more details please log on to: www.uktenders.gov.in

Signature Not Verified

(Shankar Kumar Saha)
Digitally signed by Shankar Kumar Saha
Date: 2021.01.08 12:42:45 +05'30'
Location: Uttarakhand, IN

Irrigation research Institute, Roorkee

Terms and Conditions:

- 1- The Rate quoted shall be F.O.R. Roorkee and shall be inclusive of installation, demonstration, calibration, training etc. and all prevailing taxes.
- 2- Financial bid/price/offer of only technically qualified bidder(s) will be opened and date of financial bid shall be commenced later on.
- 3- The bidder has to submit the Calibration Certificate from NABL Accredited Laboratory at the time of installation.
- 4- The above rates shall be valid for a minimum period of 120 days from the date of opening of financial bid (in the stamp paper of Rs. 100).
- 5- The Quotationer(s)/Bidder(s) shall have to supply within 45 days after the receipt of supply order.
- 6- The comprehensive warranty will be of minimum 01 year after issuing of installation certificate by the department and comprehensive AMC period of 01 year will be started after completion of 01 year warranty period.
- 7- The quantity of instrument/machine mentioned above can be reduced or increased upto any extent depending on the requirement at the time of purchase.
- 8- The 90% of the cost of the apparatus/machine shall be paid only after satisfactory supply, installation, demonstration, calibration, training to IRI Officers and Staff at IRI, Roorkee etc. complete. Balance 10% shall be paid in two installments after every six months after commencement of the commissioning of the machine.
- 9- Payment towards comprehensive warranty and comprehensive AMC shall be paid after completion of the activities each.
- 10- The Quotationer(s)/Bidder(s) shall have to submit 'Calibration Certificate' from any NABL Accredited Laboratory.
- 11- Conditional/incomplete quotation shall not be accepted and the undersigned reserves the right to reject anyone or all quotation without assigning any reason.
- 12- Bidder shall have to submit a copy of supply order of the relevant machine/equipment supplied by him/them in last seven year.

Technical Specification:

Ultrasonic Pulse Velocity test apparatus should consist of all apparatus as specified in IS 13311 Part-1.

- (i) The apparatus for ultrasonic pulse velocity measurement shall consist of the following:
 - (a) **Electrical pulse generator**
 - (b) **Transducer** - one pair, suitable type of transducer operating with- in the frequency range of 20 kHz to 150 kHz may be used. Piezoelectric and magneto-strictive types of transducers may be used, the latter being more suitable for the lower part of the frequency range.
 - (c) **Amplifier**
 - (d) **Electronic timing device.** It shall be capable of measuring the time interval elapsing between the onset of a pulse generated at the transmitting transducer and the onset of its arrival at the receiving transducer. Two forms of the electronic timing apparatus are possible, one of which uses a cathode ray tube on which the leading edge of the pulse is displayed in relation to the suitable time scale, the other uses an interval timer with a direct reading digital display.
- (ii) The test equipment shall be capable of operating from an ac supply of 50 Hz single phase 240 V \pm 10 percent.

TECHNICAL RESPONSIVENESS FORM

Summary of Instructions

- (i) Particulars of Manufacturer and local agent cum representative are to be given under rows Model and Address.
- (ii) All entry boxes in column “Specification and Standards as offered in by Bidder” shall be filled-in accurately and comprehensively. Quantitative fields shall be filled in accurately. It is not acceptable to use ‘Yes’, No, Compliant or similar evading words. Following format is designed to help the Bidder to understand the requirements of the equipment being procured. The Bidder must describe in the format how his bid responds to the technical requirements of the equipment. Bidder to note that one or two word responses (e.g. “Yes”, “No” “will comply” or similar evading words) are normally not sufficient to confirm the responsiveness with the technical requirements, hence elaborate responses are sought from the bidders. In case of deviation on the following technical requirement of equipment is not as per minimum criteria mentioned, the bids may be declared non-responsive.
- (iii) Requested materials and information shall be enclosed with the bid and be unambiguously associated with instruments as offered in the bid

- (iv) Negligence to comply with the instructions and requirements as stated above makes the bid liable to be rejected.

Particulars	Required Specifications and standards	Specification and standard as offered in by Bidder
Make:		
Model:		
Manufacturer Name, address, email, phone, website, fax		
Pulse generator	Electrical pulse generator	
Transducer	One pair, suitable type of transducer operating with- in the frequency Range of 20 kHz to 150 kHz may be used. Piezoelectric and magneto-strictive types of transducers may be used, the latter being more suitable for the lower part of the frequency range.	
Amplifier	Included	
Electronic timing device	It shall be capable of measuring the time interval elapsing between the onset of a pulse generated at the transmitting transducer and the onset of its arrival at the receiving transducer. TWO forms of the electronic timing apparatus are possible, one of which uses a cathode ray tube on which the leading edge of the pulse is displayed in relation to the suitable time scale, the other uses an interval timer with a direct reading digital display.	