



**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. 18/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 Penetration Resistance Apparatus for Setting Time of Concrete 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 PENETRATION RESISTANCE APPARATUS FOR SETTING TIME OF CONCRETE AT IRRIGATION RESEARCH INSTITUTE, ROORKEE	01 No.	120 Days	1.5 Months

Key Dates

1.	Bid Reference	:	18/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 10:20 AM
4.	Date of commencement of downloading of bid document	:	11.01.2021 10:30 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 4:00 PM
8.	Last date and time for bid submission/uploading of bid on www.uktenders.gov.in	:	11.02.2021 4:00 PM
9.	Time and date of opening of Technical Bids	:	11.02.2021 4:30 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: 2021.01.09 12:42:40 IST
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:

Penetration Resistance Apparatus should have following specifications:

- (i) Containers for Mortar Specimens shall be rigid, watertight, non-absorptive, free of oil/grease, either cylindrical or rectangular in cross-section, with minimum lateral dimension 150 mm and height at least 150 mm. The container for the mortar from the concrete mixture shall provide enough mortar surfaces for ten undisturbed readings of penetration resistance in accordance with clear distance requirements as specified in IS 1199 (Part-7).
- (ii) Penetration Resistance Apparatus, spring reaction-type apparatus, graduated from 50 N to 600 N in increments of 10 N or less; or hydraulic reaction type apparatus with pressure gauge of 700 to 900 N capacity, graduated in increments of 10 N or less. Indications of actual needle loads by these apparatus shall be accurate to 10 N. Removable needles of 645, 323, 161, 65, 32, and 16 mm² bearing areas shall be provided. Each needle shank shall be scribed peripherally at a distance of 25 mm above the bearing face. The length of the 16 mm² needle shall be not more than 90 mm to minimize bending. The apparatus shall be recalibrated periodically.
- (iii) Pipette or other suitable instrument for drawing off free water from the surface of the test specimens shall be used.
- (iv) Tamping Rod, of circular cross-section, straight, made of steel, having a diameter of 16 ± 1 mm, a length of 600 ± 5 mm and having rounded ends.

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		
Containers	Cylindrical or rectangular container, rigid, watertight, non-absorptive, free of oil/grease	
Minimum lateral dimension	150 mm and height at least 150 mm.	
Penetration Resistance Apparatus	spring reaction-type apparatus, graduated from 50 N to 600 N in increments of 10 N or less; or hydraulic reaction type apparatus with pressure gauge of 700 to 900 N capacity, graduated in increments of 10 N or less	
Accuracy	10 N	
Removable needles	645, 323, 161, 65, 32, and 16 mm ² bearing areas shall be provided. Each needle shank shall be scribed peripherally at a distance of 25 mm above the bearing face. The length of the 16 mm ² needle shall be not more than 90 mm to minimize bending. The apparatus shall be recalibrated periodically.	
Tamping Rod	Dia. of 16 ±1 mm, a length of 600 ± 5 mm and having rounded ends	
Pipette or other suitable instrument for drawing off free water from the surface of the test specimens shall be used.		