

DIVISION OF AGRICULTURAL PHYSICS
ICAR-Indian Agricultural Research Institute, Pusa, New Delhi-110012

File No. AP/7-24/2019-20

Dated: 21/08/2019

Tender Notices

Online quotations are invited from reputed Manufacture/Dealer/Supplier in two bid system (Technical bid & Financial bid) for purchase of following Scientific Equipment/Items on behalf of Director ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid **10.09.2019** at 01.00 PM. The bid will be opened on dated **11.09.2019** at 15:00 hrs by the prescribed committee.

Please visit www.iari.res.in for Details Rules and Regulation and Log on www.eprocure.gov.in for online.

Sl. No.	Name of Scientific Equipment/ Item	Quantity
1.	Soil Profile Temperature and Moisture content probe with datalogger	One

Instructions to the bidder and terms & conditions of tender:

The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for submission of bid.

1. The rates quoted shall be free of cost delivery and installation at the Division/Unit of Agricultural physics, IARI, New Delhi – 110012. However, equipment quoted in foreign currency must be quoted on FOB/ CIP basis
2. Custom Duty Exemption Certificate (CDEC) will be issued only when the bid is quoted in foreign currency in case of foreign made items only and meant for IARI
3. Full specifications of the item/article quoted for shall be given in the quotation.
4. If taxes, duties or any other charges over and above the rates quoted livable, actual percentage of such taxes/duties/other charges should be clearly indicated.
5. **EMD of Rs. 15,000/- (Fifteen thousand only)** should be in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favor of Director, IARI payable at New Delhi. The original EMD should be submitted to the Tender Inviting Authority on or before the last date and time of offline bid submission. The details of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee physically sent, should tally with the details available in the scan copy and the data enter during the bid submission time otherwise the uploaded bid will be rejected.
6. No interest on security deposit and earnest money deposit shall be paid by the Institute to tender.
7. The EMD shall be refunded to the unsuccessful bidders after finalization of the quotation. In case of successful bidder, it can be adjusted towards security deposit which is 5-10% of the order value in the form of D.D./Pay Order/Fixed Deposit Receipt/Bank Guarantee from commercial bank drawn in favor of Director, IARI payable at New Delhi and shall remain valid for 60 days beyond the date of completion of all contractual obligation of supplier including warranty obligation for the equipment/goods costing Rs.1.00 lakhs (Rs. One Lakh) or more. Here would however, be no performance security deposit for equipment/goods costing less than Rs. 1.00 lakh (Rs. One Lakh).
8. One year warranty has to be invariable provided by the firm. In case, there is any variation in the warranty period given in the specification of the item/equipment, the warranty period shall be the final as given in the specification.
9. Payment will be made by mode of e-payment to the supplier/firm after satisfactory completion of work and receipt of pre-receipt bills triplicate.
10. The Director IARI, New Delhi reserves the right to accept or reject any or all the quotations either in full or in parts without assigning any reason.
11. Cost of data logger and sensor for each unit need to be mentioned separately.
12. Quotations not complying with the above conditions are liable to be rejected.
13. TIN/VAT/PAN/C.S.T. Nos. Scanned copy of TIN/VAT/PAN/C.S.T. Nos may be attached with the bid.

14. In case, any dispute arising out of this contract shall be subject to the jurisdiction of Indian laws & Court at New Delhi. Sole arbitrator is appointed by the Secretary, ICAR, and New Delhi. His decision will be final and binding on both parties (Supplier and Purchaser)

15. The successful bidder has to execute the indented Job/Work as mentioned in the supply order placed with them within the stipulated period as given in the supply order placed by this office failing which 2% per week and maximum of 10% deduction as liquidated damage charges will be made from the bill in case the job is not completed within the given stipulated period.

Firms should have 3 years experience in this line, proof should be enclosed.

Sl. No.	Description / Specification of the Equipment/ Item
1.	Soil Profile Temperature and Moisture content probe with datalogger

Asstt. Admn. Officer

Specifications for Datalogger

SPECIFICATIONS	
Logging interval: 1 sec to 24 hours with facility to program log start time	
Analog Channels	8-9
Resolution	16/32 bit
Excitation Channels	Minimum 9 Channels
Operating Temperature	-50°C to +70°C
Memory	
Built-In	60 MB (>20000 readings), RAM: 32 MB
External memory	Expandable upto 2-4 GB with memory chip
Display	Alphanumeric display of 16 characters
Keypad features	6-8 buttons
Clock	Real time
Power Requirements	10-16VDC (20VDC max)
Windows compatible Software with USB Cable	
Weatherproof enclosure suitable for Outdoor installation	
Power requirement: Field replaceable AA size alkaline batteries	

Specifications of Soil Moisture and Temperature Sensor

Description and Functions :-

1. Sensor based on Time Domain Reflectometer (TDR) for estimating soil permittivity and water content
2. Sensor based on standard SDI-12 interface.

Functions :-

1. Water Content : 0 to 100% with 0.1% resolution
2. Permittivity : 1 to 90 with 0.1 unit resolution
3. EC : 0 to 50 d S/cm
4. Temperature : -50 to +70°C with 0.1° resolution
5. Pore water EC : 0 to 55 dS/cm

Operating conditions :-

1. Read Time : 0.5- 1 seconds
2. Voltage : 5 to 20 volts DC
3. Temperature Accuracy : $\pm 0.1^{\circ}\text{C}$
4. EC Accuracy : ± 0.5 to 1%,
5. Water Content Accuracy : $\pm 2-3\%$

Kits for installation and mounting in the field:

Installation kits should be there and portable mounting system is essential.

Price of each sensor and data logger should be mentioned separately.