

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

File No. AP/7-39/2019-20

Dated:28/01/2020

**Tender Notice**

**Online quotations** are invited from reputed Manufacture/Dealer/Supplier in two bid system (Technical bid & Financial bid) for the purchase of following instrument on behalf of Director ICAR-Indian Agricultural Research Institute, New Delhi. The last date for submission of Bid 17/02/2020 at 01.00 PM. The bid will be opened on dated 18/02/2020 at 15:00 hrs by the prescribed committee.

*Please visit [www.iari.res.in](http://www.iari.res.in) for Details Rules and Regulation and Log on [www.eprocure.gov.in](http://www.eprocure.gov.in) for online.*

Sl. No.	Name of Scientific Equipment/ Item	Quantity
1.	Root Scanner "WinRhizo BASIC STD4800" <i>(as per technical specifications given in Annexure-I)</i>	One

**Instructions to the bidder and terms & conditions of tender:**

1. The rates quoted shall be valid for a minimum period of 180 days from the last date fixed for submission of bid.
2. 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.
3. 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
4. Full specifications of the item/article quoted for shall be given in the quotation.
5. 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.
6. **EMD of Rs. 25,000/- (Rupees Twenty Five 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.
7. No interest on security deposit and earnest money deposit shall be paid by the Institute to tender.
8. 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).

9. One year AMC has to be invariable provided by the firm. In case, there is any variation in the AMC period given in the specification of the item/equipment, the AMC period shall be the final as given in the specification.
10. 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.
11. 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.
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. The Institute intends to procure the subject items from M/s REGENT Instruments Inc., Canada on the understanding that M/s REGENT Instruments Inc., Canada have the Proprietary rights on manufacture of this instrument and M/s SPECTRA AGRITEC, India is their exclusive authorized distributor in India. However if any manufacturer is engaged in business of manufacturing the same item and considers itself capable of supplying the same to the Institute as per desired technical specifications, delivery terms etc. at competitive rates, he may intimate the same to the undersigned within 14 days of posting this NIT on the website.**
15. 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)
16. 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.
17. Firms should have 3 years experience in this line, proof should be enclosed.

**Asstt. Admn. Officer  
011-25842321/1178**

Copy to: Incharge AKMU for uploading on IARI website

## Annexure-I

### Technical specifications for Root Scanner

**Root Scanner "WinRhizo BASIC STD4800"** for acquisition and automatic analysis of washed roots along with accessories is required for desktop type use in laboratory. The system should be complete with root image analysis software, image acquisition scanner, portable data analysis system (Desktop computer), root holding and positioning accessories. The detailed features of required image analysis system with software, hardware and accessories are as follows:

S. No.	Product Name
1	Windows based program with graphic user interface and simple, rapid features for root positioning, image acquisition, analysis and saving of data
2	Provision for different types of analysis – <ul style="list-style-type: none"><li>• Roots measured automatically after extraction from soil and washing</li><li>• Before analysis, the roots are digitized with a scanner</li><li>• Scanner should have special lighting system to avoid shadows</li><li>• System should be permanently calibrated to increase the measurement precision</li><li>• Measurement and analysis of root morphological features namely total root length, average root diameter, total surface area of roots, root volume, number of tips, forks, and crossings.</li><li>• For more accurate estimations the system should be able to analyze overlapped roots with provision of overlap correction. Also, provision for filtering out the debris based on area, shape.</li><li>• Analysis of roots using desktop scanner, suitable for image acquisition of macroscopic objects like roots</li><li>• Scanner: 22 × 30 cm for standard area with optical resolution of 4800 dots per inch.</li><li>• Accessories for root positioning and scanning</li><li>• The computer hardware should support faster analysis of high resolution images, visualization and storage.</li></ul>
3	Printed manual for technical information and details of procedures.
4	Warranty: 1 Year
5	Bidder should include > 5 copy of successful installations with user contact details
6	Bidder should include > 5 copy of International Publication of quoted model