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CROP RESEARCH UNIT
RESEARCH DIRECTORATE

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PI, ICAR-Niche Area of Excellence program, is inviting e-tender from competent and *bonafide* vendors/ distributors/ dealers/agents/ manufacturers having registration of GST for supply of 'Portable Photosynthesis system for measuring the Photosynthetic gas exchange and chlorophyll fluorescence' to the University, within 15 days from the date of issue of this notice as per specifications appended bellow (Table 1). Without essential accessories tender will be considered as incomplete. Quoted rates of all the equipment and items, including imported ones are must be FORDESTINATION (up to delivery at the laboratory) and satisfactory installation and demonstration. Vendors are requested to pay a demand draft ofRs. 5000.00 (Five thousand only) as EMD in favour of the '**Bidhan Chandra Krishi Viswavidyalaya**' payable at Kolkata. Without EMD quotations will not be considered for comparison.

Technical specification with demand draft for the item must be submitted separately by sealed envelope with mentioning name of the item above the envelope. Bid papers preferably accompany document supporting technical details of the equipment, authorization certificate from original manufacturer, trade license, GST registration etc. Suppliers who will fulfill the technical specification, as desired, will only be allowed to participate in making comparative statement of the quote price. Authority reserves the right to issue of purchase order only after realization of fund from the funding authority.

Last Date of Document Download / Sale End Date: 22-Mar-2018 06:00 PM

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Table 1. Specification of Portable Photosynthesis system for measuring the Photosynthetic gas exchange and chlorophyll fluorescence

Sl.	Name of the Equipment	Qty.	Detail specification
1	Portable Photosynthesis system for measuring the Photosynthetic gas exchange and chlorophyll fluorescence	1	<p>A complete gas exchange and fluorescence system with two years comprehensive maintenance which is ideal for field and lab work that includes fluorescence measurements with natural and controlled light.</p> <p>a) 3×3 cm Clear Leaf Chamber with IRGA in the sensor head, Multiphase flash fluorometer capable of measuring both modulated and continuous fluorescence signals, delivering saturation flashes at intensities upto 16,000 mol m⁻¹ s⁻¹ over a 6 cm² leaf area. With high modulating frequencies (up to 250 kHz), it should characterize the fluorescence induction transient (also called an “OJIP curve”) of a leaf at high resolution.</p> <p>b) CO₂ analyzer specification: At least 2 IRGA with specification above 3000 ppm.</p> <p>c) H₂O analyzer specification: At least 2 IRGA with specification above 70mmol mol⁻¹.</p> <p>d) Air flow rate in leaf chamber should be above 1200 μmol s⁻¹ Range in chamber pressure sensors should be -2 to 2kPa Range of light measurement (PAR) within 0 to 3000μmol m⁻² s⁻¹.</p> <p>e) Memory and display: At least 6GB flash memory, sunlight -readable TFT LCD, touch Screen with 1024 x 600 Pixels resolution and preferably with a hand held leaf area meter.</p> <p>f) Instrument case, Accessories case, carrying harness, Tripod and pan head mount, Lithium ion batteries (with spares of additional 3), AC to DC power supply (110 to 240 VAC input; 24 VDC output; capable of charging 2 batteries in the console), Single-bay battery charger, Drierite, soda lime, and Pall Stuttgarter Masse for gas conditioning, 8-gram CO₂ cartridges (6 boxes of 25), Spares kit.</p>