

Bidhan Chandra KrishiViswavidyalaya
CROP RESEARCH UNIT
RESEARCH DIRECTORATE

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Tender ID 2018_BCKV_197608_1

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 measurements with natural and controlled light’** to the University, within 15 days from the date of issue of this notice as per specifications appended bellow.

i) Preparation of bids: the tender should be submitted under two bid system (i.e. technical and financial bid) with validity for a period of 6 (six) months.

ii) Technical bids will be evaluated by the Indenter and other expert members of the office and the financial bids will be opened of those bidders who qualified in technical bids.

iii) Without essential accessories tender will be considered as incomplete. Quote price of the equipment and items, including imported ones must be in **Indian Rupees** only FORDESTINATION (up to delivery at the laboratory) and satisfactory installation and demonstration. Vendors are requested to pay Rs. 35000.00 (Thirty Five thousand only) as EMD as demand draft in favor of the **‘Bidhan Chandra Krishi Viswavidyalaya’** payable at Kolkata. Without EMD quotations will not be considered for comparison. Scanned copy of the EMD must have to uploaded with the technical bit. EMD exemption certificate must be uploaded, if any.

iv) All scanned copy of the supporting document in favor of claimed technical specification must have to be uploaded including authorization certificate from original manufacturer, trade license, GST registration etc. Suppliers who will fulfill the technical specification, as desired, will only be allowed to eligible in making comparative statement of the quoted price. Authority reserves the right to issue of purchase order only fulfillment of all the criteria or reject without showing any reason.

v) Reduced rate of GST (5%) is applicable to the University. Requisite certificate will be issued by the university authority.

vi) Warranty

Warranty period minimum 3 Year or more from the date of supply. Manufacturer must have their own dedicated Service Centre available in India and details of Service Centre must be provided while submitting their Quotations

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Table 1.

S.No	Name of the Item/Equipment	Qty.	Detail specification
1	Portable Photosynthesis system for measuring the photosynthetic gas exchange and chlorophyll fluorescence measurements with natural and controlled light.	1	<p>Portable Photosynthesis system for measuring the Photosynthetic gas exchange and chlorophyll fluorescence: 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</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>