

Centre for Agricultural Research and Innovation (CARI)
Department of Agriculture
Guru Nanak Dev University, Amritsar

Ref. 857 /CARI

Dated 08/01/2026

NOTICE, INVITING QUOTATION

Subject: Sealed quotations for the purchase of **chlorophyll meter**: -

Sr.No.	Particulars & Specifications	QTY.
1.	General Description <ul style="list-style-type: none">• Light weight, hand-held, battery-operated instrument for accurate and easy determination of chlorophyll content in plant leaves.• Non-destructive measurement.• Suitable for field and laboratory use.• Useful for improving nitrogen management in crops.	1 NO
2.	Measurement Principle <ul style="list-style-type: none">• Optical density difference measurement at two wavelengths:<ul style="list-style-type: none">◦ 653 nm (Chlorophyll)◦ 931 nm (Near Infra-Red)	
3.	Measuring Characteristics <ul style="list-style-type: none">• Measuring Area: 1 cm diameter circular area• Measurement Interval: 2-3 seconds• Sampling Acquisition Time: 2 seconds• Resolution: 0.1 CCI unit• Accuracy: ± 1 CCI unit• Repeatability: $\pm 1\%$• Light Source: Two LEDs	
4.	Data Handling & Storage <p>In-built data logger.</p> <ul style="list-style-type: none">• Data Storage Capacity: Minimum 1,60,000 data sets• Data Modes:<ul style="list-style-type: none">◦ Single point◦ Averaging (1-30)◦ Statistical protocol (10-30)• Automatic data averaging facility.	

- USB data downloading facility.
- GPS compatibility.
- Output Interface: USB 1.1

5. Display & User Interface

- Alpha-numeric / graphic LCD display.
- Display options:
 - 16 × 2 LCD display
 - 128 × 32-pixel graphic display
- Keypad:
 - Minimum **5 keys** for basic operation
 - Up to **8 keys** for measurements, data manipulation, beep signal status, and warnings

6. Power Supply

- Power Source: **9 V alkaline battery**
- Auto Power Off: **4 minutes** if no key is pressed

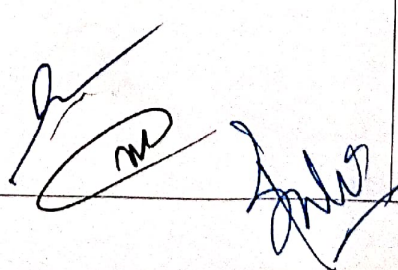
7. Environmental Conditions

- Operating Temperature Range: **0°C to 50°C**

8. Physical Specifications

- Weight: **Approximately 162 grams**
- Hand-held, portable design suitable for field use.

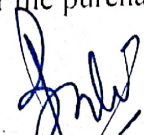
9. Accessories (to be supplied)

- USB data download cable
 - Instruction manual
 - Carrying case
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10.	Warranty & Support <ul style="list-style-type: none"> Instrument should be supplied with standard manufacturer warranty. Calibration and after-sales service support to be available in India. 	
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Terms & Conditions:

1. Quotations should be address to **Coordinator, CARI, Department of Agriculture (Near U I T building), Guru Nanak Dev University, Amritsar- 143005**, so as to reach this office **27 January, 2026 (Tuesday)** at 4.30 p.m. under **registered speed post** duly **super-scribed** on the envelope **"Quotation for chlorophyll Meter"**.
2. Rates should be inclusive of all taxes, duties, installation and levies in Indian Rupees F.O.R. G.N.D. University, Amritsar, otherwise quoted price will be treated as all inclusive. Rates should be written both in words and figures.
3. The institutional discount should be mentioned clearly.
4. The Quotations shall be written legibly and free from erasing and over-writing. Corrections, if any, should be duly attested by authorized signatory.
5. Bids received within the due date only will be entertained.
6. The quotation should be valid for a period of 60 days for acceptance from the date of opening of the bids.
7. Bidders cannot withdraw their offer once it is submitted.
8. The vender may quote the items, which meets the requirements and specification along with the layout, make, model, material specifications, dimensions, brochures, photo catalogues of items along the quotation.
9. GNDU Committee also reserves the right to accept/reject the offers or cancel the whole proceedings without assigning any reason whatsoever. In case of any dispute, the matter will be referred to Vice-Chancellor, Guru Nanak Dev University, Amritsar
10. Decision will be binding and final. Bidders are not entitled to claim any damage or compensation in case of such cancellation.
11. Jurisdiction: The disputes, legal matters, court matters, if any shall be subject to Amritsar Jurisdiction only.
12. The delivery of Chlorophyll Meter in the Department of Agriculture in G.N.D. University shall be made within 20 working days of the issue of supply order, failing which the order will be withdrawn.
13. All materials shall be new, unused, and of standard make.
14. The bill payment process will be started as per institutional norms after the purchase of Chlorophyll Meter


Coordinator, CARI
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