

1044/CARI  
4/3/2006

Centre for Agricultural Research and Innovation (CARI)

Department of Agriculture

Guru Nanak Dev University, Amritsar

Ref. /CARI

Dated

NOTICE, INVITING QUOTATION

Subject: Sealed quotations for the purchase of following Automatic Weather Station (Sunshine Sensor Solar PAR) with Accessories: -

Sr.No.	Particulars & Specifications	Q.T.Y.												
1.	Automatic Weather Station Components, Sunshine Sensor Solar PAR  One Pyranometer for simultaneous outputs of total radiation, diffuse radiation and sunshine status. Output pre-set to PAR, Energy or Lux units. Glass Dome with built in heater to defrost automatically.	1												
	<table border="1"><tr><td>Range</td><td>0-2500<math>\mu</math>mol/m<sup>2</sup>/sec. (total &amp; diffuse)</td></tr><tr><td>Spectral Range</td><td>PAR (400-700 nm)</td></tr><tr><td>Units</td><td>Output should be user selectable for Total radiation and Diffused measurements: <math>\mu</math>mol/m<sup>2</sup>/sec. W/m<sup>2</sup> Lux</td></tr><tr><td>Resolution</td><td>0.6 <math>\mu</math>mol/m<sup>2</sup>/sec.</td></tr><tr><td>Heater output below 0°C Heater output above 5° C</td><td>15w 2W reducing to 0 w at 35° C</td></tr><tr><td>Battery</td><td>In-built 2 x AA batteries.</td></tr></table>	Range	0-2500 $\mu$ mol/m <sup>2</sup> /sec. (total & diffuse)	Spectral Range	PAR (400-700 nm)	Units	Output should be user selectable for Total radiation and Diffused measurements: $\mu$ mol/m <sup>2</sup> /sec. W/m <sup>2</sup> Lux	Resolution	0.6 $\mu$ mol/m <sup>2</sup> /sec.	Heater output below 0°C Heater output above 5° C	15w 2W reducing to 0 w at 35° C	Battery	In-built 2 x AA batteries.	
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Battery	In-built 2 x AA batteries.													

*Sanjay Bhatia*

Response time	< 250ms		
Temperature range	-20 to + 50 ° C, Alkaline batteries -20 to + 70 ° C, Lithium batteries		
Compatible	Sensor should be compatible to existing GP2 data logger.		

	PAR	Energy	illumance
Units	$\mu\text{mol}/\text{m}^2/\text{s}$	$\text{w}/\text{m}^2$	klux
Overall accuracy:	$\pm 10 \mu\text{mol}/\text{m}^2/\text{s} \pm 12\%$	$\pm 5 \text{ W} \cdot \text{m}^{-2} \pm 12\%$	$\pm 0.600 \text{ klux} \pm 12\%$
Total			
Overall accuracy	$\pm 10 \mu\text{mol}/\text{m}^2/\text{s} \pm 15\%$	$\pm 20 \text{ W} \cdot \text{m}^{-2} \pm 15\%$	$\pm 0.600 \text{ klux} \pm 15\%$
Diffuse			
Resolution	0.6 $\mu\text{mol}/\text{m}^2/\text{s}$	0.3 $\text{W} \cdot \text{m}^{-2}$	0.060 klux
Range	0 - 2500 $\mu\text{mol}/\text{m}^2/\text{s}$	0 - 1250 $\text{W} \cdot \text{m}^{-2}$	0 - 200 klux
Output sensitivity	$1\text{mV} = 1 \mu\text{mol}/\text{m}^2/\text{s}$	$1\text{mV} = 0.5 \text{ W} \cdot \text{m}^{-2}$	$1\text{mV} = 0.100 \text{ klux}$
Output range	0 - 2500 mV	0 - 2500 mV	0 - 2000 mV

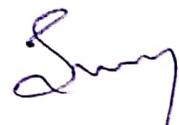
Sensor should be supplied with necessary Cables, spares and fixture compatible to existing GP2 Weather Station. Supplier should take full responsibility to install and configure it with GP2 without disturbing the other sensors.

#### 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 Februry 16, 2026 (Monday) at 4.30 p.m. under registered speed post duly super-scribed on the envelope "Automatic Weather Station Components ,Sunshine Sensor Solar PAR."
2. Rates should be inclusive of all taxes, duties 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 vendor 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 **Automatic Weather Station Components, Sunshine Sensor Solar PAR** 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. The bill payment process will be started after the purchase of **Automatic Weather Station Components, Sunshine Sensor Solar PAR.**



Coordinator, CARI