



## AICRP ON AGROMETEOROLOGY

ODISHA UNIVERSITY OF AGRICULTURE & TECHNOLOGY, BHUBANESWAR-751003 (ODISHA)

No.424

Date.14.03.2023

### QUOTATION NOTICE

Sealed quotations are invited from reputed manufacturers/ authorized dealers for the supply of one unit of Net Radiometer along with compatible data logger and power supply unit to the AICRP on Agrometeorology, OUAT, Bhubaneswar. The price for the above items may be quoted including onsite (OUAT, Bhubaneswar) installation and commissioning charges. The quotations along with other essential documents (GST, PAN, valid authorization letter of manufacturers, etc) need to reach the Agrometeorologist, AICRP on Agrometeorology, Directorate of Research, OUAT, Bhubaneswar, PIN- 751003 (Odisha) by 24.03.2023 (up to 5.00 PM) through Indian post or courier service.

<b>1. Net Radiometer with installation and commissioning</b>	
<b>Technical Specification</b>	
Number of signal outputs	1 (single component) - net total radiation
Response time (95 %)	< 60 s
Non-linearity (over full range)	< 1%
Temperature dependence of sensitivity	- 0.1 % / °C (typical)
Sensitivity	10 $\mu$ V/W/m <sup>2</sup> (nominal)
Operating temperature	-40 °C to +80 °C
Spectral range (50 % points)	200 nm to 100 $\mu$ m
Field of view	180 ° upper and lower sensor
Mounting rod	Fixed, 800 mm long x 20 mm $\varnothing$
Standard cable	15 m fixed cable
Warranty	As per OEM norms
<b>2. Data Logger</b>	
<b>Technical Specification</b>	
Communications	Internet Protocols: Ethernet, PPP, RNDIS, ICMP/Ping, Auto-IP (APIPA), IPv4, IPv6, UDP, TCP, TLS (v1.2), DNS, DHCP, SLAAC, Telnet, HTTP(S), FTP(S), POP3/TLS, NTP, SMTP/TLS, MQTT Additional Protocols: PakBus, PakBus Encryption, SDI-12, Modbus RTU / ASCII / TCP, DNP3, custom user definable over serial USB: Type C 2.0. Full speed: 12 Mbps. Operates as: 1 Device for computer communications 1 Host for mass storage devices SDI-12 (C1, C2): Two independent SDI-12 compliant terminals are individually configured and meet SDI-12 Standard v 1.4. RS-232: 1 COMRS232: Female RS-232, 9-pin interface, 1200 to 115.2 kbps 1 COM1 (C1,C2): TTL or RS-232 logic 1 COM2 - COM3: Two independent RS-232 Rx/Tx pairs

	RS-485 (COM2 - COM3): Two independent RS-485 half duplex or one full duplex
Components	Antenna, SIM slot
Memory	CPU Drive: 50 MB Serial Flash Data Storage: 50 MB Serial Flash Operating System: 2 MB Flash
Battery	Input: Solar Panel Battery backed while external power is disconnected Resolution: 1 ms l Accuracy: $\pm 3$ min. per year
Battery Terminal Characteristics	Input from external battery 12 VDC, 7 Ah lead-acid, typical Voltage input 10 to 18 VDC Current limit at 3.7 A
Temperature Range	-40 °C to +70 °C
Mounting bracket	Compatible with Net Radiometer & Data logger
Warranty	As per OEM norms

### IMPORTANT INFORMATION

01	Place of Submission of Quotations	Dean of Research, Chairman, Purchase Committee, Directorate of Research, OUAT, Bhubaneswar, PIN-751003 (Odisha)
02	Mode of Submission of Quotations	Indian post or courier service
03	Closing date & time for receipt of quotations	22.03.2023 (up to 5.00 PM)
04	Date & time of opening of quotations	23.03.2023 (11.00 AM)
05	Place of opening of quotations	Office of the Dean of Research, OUAT, Bhubaneswar
06	Mode of communication to qualified supplier	Email

Sd/-  
14.03.2023  
Agrometeorologist