



क्रय अनुभाग
वन अनुसंधान संस्थान
देहरादून २४८००६-
GSTIN 05AAAA11708G2Z6
PAN NO. AAAA11708G

Purchase Section
Forest Research Institute,
Dehradun-248006, UTTARAKHAND
Phone: 0135-2224205
<http://fri.icfre.gov.in/tender/>
Email: po_fri@icfre.org



Objection Invitation for Single Tender Enquiry
(Against Proprietary Article Certificate)

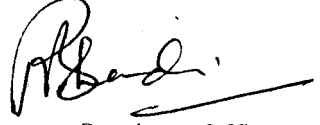
Tender Ref. No X-72/ECC/HS/AICRP/2019-20
Tender ID: 2020_ICFRE_567963_1

Date: 29/10/2020

Sub :- Purchase of "Automatic Weather Station Model AWS" (Advance Multifunction Data Logger) - reg.

The request has been received from the HOD, Ecology and Climate Change Division, FRI for "Automatic Weather Station Model AWS" (Advance Multifunction Data Logger) from M/s Spectra Agritec, B-1, B-2, Ashok Apartments, 3rd Floor, Ranjeet Nagar, Commercial Complex, New Delhi-110 008 authorized by ICT International Pty Ltd. 211 Mann St. Armidale NSW 2350 Australia, on proprietary basis. The proposal & PAC certifications submitted by above mentioned firm are attached herewith.

The above document are being uploaded on FRI website and CPPP portal for open information to prospective manufacturers to submit their objections/comments (if any) regarding proprietary nature of equipment/item within 14 days of giving above mentioned reference number. The comments should be received in the office of Purchase Officer, FRI, Dehradun-248006, through E-mail (po_fri@icfre.org) on or before 12.11.2020 at 3:00 P.M. failing which, it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.


Purchase Officer
Forest Research Institute

Encl:-

- 1- PAC Certificate, Specification of equipment, and Proforma invoice

Critical Date Sheet

S. No.	Particulars	Date	Time	Location
1.	Published Date	29.10.2020	05:00 PM	FRI website and CPP portal: https://www.eprocure.gov.in/epublish/app
2.	Document Download Start Date	29.10.2020	06:00 PM	At CPPP Portal as above
3.	Objection/Comments Submission start date	29.10.2020	06:30 PM	through email (po_fri@icfre.org)
4.	Objection/Comments Submission End Date	12.11.2020	03:00 PM	through email (po_fri@icfre.org)

Copy to: I.T. & GIS Discipline, FRI, with request to upload it on FRI website



ICT International Pty Ltd

Enabling better global research outcomes in soil, plant & environmental monitoring

15th June 2020

PROPRIETARY CERTIFICATE

TO WHOM IT MAY CONCERN:

This is to certify that the Automatic Weather Station Model AWS (Advance Multifunction Data Logger) is a Proprietary product of M/s ICT International Pty Ltd., Australia.

The Automatic Weather Station is specially configured with

1. Air Temperature: Range: -40°C to +120°C, Accuracy: $\pm 0.3^{\circ}\text{C}$
2. Relative Humidity Sensor: Range: 0 to 100 %, Accuracy: $\pm 2\%$
3. Solar Radiation: Range: 0-1750 W/m², Accuracy: 1 w/m²
4. Rain Fall - Tipping Bucket Rain Gauge, Pulse Channel : Range: 0-500mm/hr, Accuracy: $\pm 3\%$
5. Wind Speed Sensor (Anemometer), 3cup, Digital / Pulse: Range: 0-58m/s(0-209km/hr), Accuracy: $\pm 5\%$
6. Wind Direction Sensor, Digital : Range: 0 to 360°, Accuracy: 7°
7. FDR - Soil Moisture Sensor : Range: 0-100%VWC, Accuracy: $\pm 3\%$
8. Soil Temperature Sensor: Range: -20°C to 60°C, Accuracy: $\pm 0.10\text{C}$
9. Soil Heat Flux plate-heat flux: Range: -2000 to +2000 W/m², Accuracy: $\pm 5\%$ FSD
10. PAR-Quantum sensor : Range: 2000 $\mu\text{mol}/\text{m}^2/\text{sec}$, Accuracy: $\pm 5\%$ FSD
11. Virtual calculation of Vapour Pressure Deficit (VPD) & Automatic Evapotranspiration Calculation (ET)
12. Optional Sensor (SAP Flow , NET Radiation, Albedometer ...) can be connected to Data Logger

and is a Proprietary Item of M/s ICT International Pty Ltd., Australia.

To the best of our knowledge, there is no other manufacturer manufacturing any such instrument with the same specifications.

Yours Sincerely,

Peter Cull
Director
ICT International Pty Ltd



ICT International Pty Ltd

Enabling better global research outcomes in soil, plant & environmental monitoring

Ref: ICTIND060120

Date: 6th January, 2020

AGENCY CERTIFICATE

TO WHOM IT MAY CONCERN

We ICT International Pty Ltd, Australia hereby certify that M/s Spectra Agritec located at B-1, B-2, Ashok Apartments (3rd Floor), Ranjit Nagar Commercial Complex, New Delhi -110 008, is our exclusive agent in India for our range of products and accessories.

M/s Spectra Agritec will provide you with assistance and after-sales service on ICT International Pty Ltd, Australia products. They are hereby authorized to submit offers, negotiate and finalise orders for all ICT International Pty Ltd, Australia products on our behalf.

This agreement is valid from this date and will remain in effect unless otherwise stipulated with written notice by us.

For ICT International Pty Ltd, Australia.

Yours sincerely,

Peter Cull

ICT International Pty Ltd
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PO Box 503 Armidale NSW 2350 Australia
Phone : +61 2 6772 6770 Email : sales@ictinternational.com www.ictinternational.com.au

PROFORMA INVOICE

Ref. : SA/IQ/067/RK/20
 Date : 20th July 2020

The Purchase Officer
 Purchase Section
 Forest Research Institute
 P. O. New Forest
 DEHRADUN- 248 006 (Uttarakhand)

GST No.: 07AAAPB5521F2ZD

FINANCIAL BID

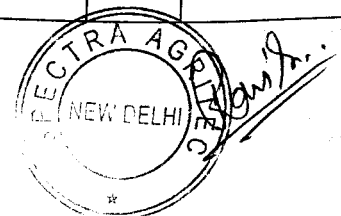
Sub.: Supply of Automatic Weather Station Model AWS

Ref.: X-72/ECC/HS/AICRP/2019-20 Dated 30.06.2020 Due on 27.07.2020 upto 3.00 PM
 for Item Sr No. 1: Automatic Weather Station

S. No	Description	Qty	Price (In ₹)
1	<p>AWS Automatic Weather Station comprising of :</p> <p>Advance Multifunction Data Logger</p> <p>No. of Channel : Total 12 (10 Analog + 2 Digital Pulse) Voltage Input Range : 0-15 V Resolution : 24 Bit Response Time : 1 sec Sampling Frequency : 10 Hz Data Storage : Micro SD card Memory Capacity : 2GB expandable to 32 GB Power Management : Internal Lithium - Polymer Battery Power Input : Non Polarised, 12VDC Computer Interface : Windows, USB, Wireless RF 2.4GHz Data : RF, GPRS, GSM, 3G & CDMA Communication Operating Temperature Range : -40°C to 80°C RH range : 0-100%</p> <p>Data Logger with USB, Boot Strap, Loading function, optical isolation lighting protection, water proof IP65, power fail safe mode, free window utility configuration software.</p>	1	9,80,000.00
	<p>Air Temperature</p> <p>Unit : °C Range : -40°C to +120°C Resolution : 0.01°C Accuracy : ±0.3°C</p>	1	
2	<p>Relative Humidity Sensor</p> <p>Unit : RH% Measuring Range : 0 to 100% Resolution : 0.05% Accuracy : ±2%</p>	1	
3	<p>Solar Radiation</p> <p>Unit : W/m2 Range : 0-1750 W/m2 Resolution : 1 w/m2 Accuracy : 1 w/m2</p>	1	

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4	Rain Fall - Tipping Bucket Rain Gauge, Pulse Channel Unit : Mm Range : 0-500 mm/hr Resolution : 0.2mm Accuracy : ±3% Rim Diameter : 203 mm Material : Stainless steel, powder coated paint	1
5	Wind Speed Sensor (Anemometer), 3cup, Digital / Pulse Unit : m/s or km/hr Range : 0-58 m/s (0-209 km/hr) Resolution : 0.45 m/s (1.6 km/hr) Accuracy : ±5%	1
6	Wind Direction Sensor, Digital Unit : °C Operating Range : 0 to 360° Resolution : 1° (0 to 355°) Accuracy : 7° Excitation Voltage : None passive	1
7	FDR - Soil Moisture Sensor The logger has capacity to connect upto 3 FDR Soil Moisture Sensor MP406 Soil Moisture Probe - Measures Volumetric Soil Water Content Range : 0-100% VWC Accuracy +/- 3%; Conxall connector for use with SMD smart interface and 4.5m cable	1
8	Soil Temperature Sensor (Therm-SS) The logger has capacity to connect upto 3 Therm-SS Unit : 0C Range : -20°C to - 60°C Resolution : 0.1°C Accuracy : +/- 0.10C Cable Length : 4 m	1
9	Soil Heat Flux plate-heat flux Unit : W/m ² Range : -2000 to +2000 W/m ² Sensitivity : 50 µV/W/m ² Accuracy : +/- 5% FSD Cable Length : 1 m	1
10	PAR-Quantum sensor Levelling Fixture with 5 meter cable Range: 2000m mol/m ² /sec Resolution : 0.01m mol/m ² /sec Accuracy : ± 5% FSD Excitation Voltage : None passive Quantum PAR Cosine Corrected (PAR; 400 to 700nm) Cable Length : 5 meter Supplied with leveling Fixture	1



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11	Vapour Pressure Deficit (VPD) and Automatic Evapotranspiration Calculation logged as a Virtual Sensor Unit : Nil Equation : Penman Monteith Method Crop factor : To be provided by user / Supplier Calculation : Virtual	1	
12	MCC MINI- Wireless USB Radio Communication Device	1	
13	20dBi Antenna 2.4 GHz, flat panel antenna	1	
14	Tripod	1	
15	Solar panel	1	
F.O.R. DESTINATION PRICE			₹ 9,80,000.00

(Rupees Nine Lakh Eighty Thousand only)

OPTIONAL ITEM AT EXTRA COST:

S. No	Description	Qty.	Price (In ₹)
1.	ICT Telemetry Hub including Hub housed in IP67 rated, hard anodised aluminium enclosure, fitted with 3G Pentaband, GSM Modem and 2.4Ghz wireless, SDI12 Interface Module, additional chogori waterproof connector and cable, anodized aluminium white mounting frame with mast clamps, 20W solar panel, 4.2V 4.8Ah Lithiumion battery, 2 x 3m 400 series N male N male coax cables, 15dBi Omni directional antenna with mounting bracket, GSM Yagi antenna with mounting bracket, 16GB SD card. SIM card not included.	1	4,61,000.00
2.	DataView Software (PC and MAC OS compatible) and Web platform. Access for 3 year User Supplies Prepaid SIM Card	1	

