

Office of Central Institute for Cotton Research
(Indian Council of Agricultural Research),
Post Bag No.2, Shankar Nagar, Nagpur 440 010
(Location :Panjari Farm, Wardha Road, Nagpur)

INVITATION FOR QUOTATIONS FOR SUPPLY OF GOODS AND EQUIPMENT UNDER NATIONAL SHOPPING PROCEDURES

F.No. 60/08-09/NAIP DSS C2046 /

dated: 28.02.09

Sub: Invitation of quotation for supply of **Weather Station(Micromet)**

1. Sealed competitive quotations are invited by the undersigned for the following items of goods/equipment.

Sl. No.	Brief description of goods/ equipment	Brief Specifications	Quantity	Delivery Period	Place of Delivery**
1	Weather Station (Micromet)	Refer the enclosure on specifications	Three	Within 25-30 days of order placement	CICR, Nagpur CICR (RS), Sirsa and CICR (RS), Coimbatore under NAIP DSS C2046 project

****:** *The equipment delivery is across three centers of CICR as mentioned in the place of delivery*

2. Government of India has received a Credit from World Bank in various currencies equivalent to US\$ 200 towards the cost of National Agricultural Innovation Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotation is issued.

3. Quoted Price:

- (a) The bidder shall quote for items in the format of quotation attached.
- (b) All duties, taxes and other levies payable by the bidder (other than Sales tax on the finished goods) shall be included in the item rate. Sales tax if any should be quoted separately.
- (c) The rates quoted for each item shall be fixed for the duration of the contract and shall not be subject to adjustment.
- (d) Rates or partial quantity of an item is not acceptable.
- (e) Corrections if any shall be made by crossing out, initialing, dating and rewriting.
- (f) Telex or Facsimile quotations are not acceptable.

4. Each bidder must submit only one quotation and the quotes must be only in Indian currency (rupees)

5. Validity of quotations:

The quotation shall remain valid for a period not less than 45 days after the deadline fixed for submission of quotations.

6. Evaluation of quotations:

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e., which are properly signed, and conform to the terms and conditions and specifications in the following manner.

- (a) The evaluation will be done excluding the sales tax. If the bidder has included the sales tax in his quotation for the item rate, it will be treated as though it is exclusive of the sales tax and no down loading of sales tax will be made;
- (b) The evaluation would be done for each item separately. The items for which no rates have been quoted would be treated as zero and the total amount would be computed accordingly. The bidder who has quoted for partial quantity of any one or more item(s) would be treated as non-responsive. Purchaser will award the contract to the responsive bidder whose total cost for all the items put together is the lowest.

7. Award of contract:

- (a) The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest price as per para 6(b) above.
- (b) The Purchaser reserves the right at the time of contract award to increase or decrease the quantities of items indicated in para 2 above by 25% without any change in the unit price or any other terms and conditions.
- (c) The Purchaser prior to the expiration of the quotation validity period will notify the bidder whose quotation is accepted of the award of contract. The terms of the accepted offer shall be incorporated in the Purchase order.
- (d) Normal commercial warranty/guarantee shall be applicable to the supplied goods;
- (e) Payment shall be made immediately after the delivery of the goods and their acceptance.
- (f) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of the contract.

8. Last date and time of receipt of quotations:

You are requested to submit the sealed quotations superscribed on the envelope as

"Quotation for the supply of **Weather Station (Micromet) under NAIP DSS C 2046**"

Due on 16.03.2009" latest by 16.00 hours on...16.03.2009 (date).

We look forward to receiving your quotations and thank you for your interest in this project.

Yours Sincerely,

(Purchaser)

Name

Address.....

Post Bag No.2, Shankar Nagar, Nagpur 440 010

(Location :Panjari Farm, Wardha Road, Nagpur)

Telephone No...07103 275549

Fax No07103 275529

Enclosure on specifications

Weather station

Specifications for Weather Station (Micromet station)

Automatic Weather Station for monitoring of various meteorological parameters like Wind speed, Wind Direction, Temperature, Relative humidity, Barometric pressure, Rainfall, Solar Radiation, Leaf wetness, Soil Temperature should comprises following:

Basic System

Data logger with LCD (transflective) data display, data acquisition system for various sensors along with data acquisition software, modular RJ-11 connectors, power adapter (5 VDC), provision for minimum of one month battery backup (preferably 3 C alkaline cells), solar battery charger for the system, data downloading cable, meteorological mast along with mounting hardware. Data access through cable type 4-conductor, 26 AWG (minimum of 30 m long cable required).

Sensors (all sensor should supply along with necessary accessories)

Sensors should be NIST (National Institute of Standard and Technology) Traceable as applicable.

Specification of Wind speed & Wind Direction Sensor

Wind Speed: Sensor Type : 3-cup anemometer with magnetic switch
 Resolution : 0.1 m/s
 Range : 1 to 67 m/s
 Accuracy : 1 m/s
 Update interval : Instant reading

Wind Direction: Sensor Type : Wind vane with potentiometer
 Resolution : 1° in numeric display
 Range : 0 to 360°
 Accuracy : ± 7°
 Update interval : 2.5 seconds

Specification of Temperature & Relative humidity Sensor

Temperature: Sensor Type : Platinum wire thermistor
 Range : - 40 to 65 °C
 Accuracy : ±0.5°C upto 43°C and 1 °C over 43°C
 Update interval : 10 seconds

Relative humidity: Sensor Type : Film capacitor element
 Range : 0.8 to 100%
 Accuracy : ±1%
 Update interval : 50 seconds

Shielding: The sensor should be solar radiation and precipitation shielded

Specification of Barometric pressure Sensor

Pressure Range : 880 to 1080 hPa
Overall Accuracy : ± 1.4 hPa
Update interval : 15 minutes or whenever desired

Specification of Rainfall Sensor

Sensor Type : Tipping bucket type Rain gauge
Accuracy : For rain rates up to 50 mm/hr : $\pm 4\%$ of total or + 0.25 mm
(0.25 mm = one tip of the bucket), whichever is greater
For rain rates from 50 mm/hr to 100 mm/hr : $\pm 5\%$ of total or +0.25 mm
Range : 0 to 9999 mm
Resolution : 0.25 mm (minimum)
Update interval : 10 seconds

Specification of Solar Radiation Sensor

Sensor Type : Silicon photodiode
Accuracy : $\pm 5\%$ of full scale (Ref. Eppley PSP at 1000 W/m²)
Resolution : 1 W/m²
Range : 0 to 1800 W/m²
Update interval : 50 seconds

Specification of Leaf Wetness Sensor

Sensor Type : Artificial leaf electrical resistance
(Gold-plated etched circuit on an epoxy-glass substrate)
Accuracy : ± 0.5
Resolution : 1
Range : 0 to 15
Update interval : 75 seconds

Specification of Soil Temperature Sensor

Sensor Type : Platinum Wire Thermistor
Accuracy : ± 0.5 °C
Resolution : 1 °C
Range : - 40 to 65 °C
Update interval : 75 seconds

Specification of Soil Moisture Sensor

Sensor Type : Electrical resistance
Resolution : 1 cb
Range : 2 to 200 cb
Update interval : 75 seconds

FORMAT OF QUOTATION

Sl.No	Brief description of goods/ equipment	Brief Specifications	Quantity	Unit	Unit Rate (Rs.) in Figures	Unit Rate (Rs.) in Words	Total Amount in Figures	Total Amount in Words

Gross total Cost: Rs..... (in figures)

Rs (in words)

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs (in figures) (Rs (in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warranty/guaranteeof months shall apply to the offered goods.

(Bidder)

Name :

Signature :

Date :