



भाक अनुप – भारतीय कदन्न अनुसंधान संस्थान
ICAR – INDIAN INSTITUTE OF MILLETS RESEARCH

(ज्वार अनुसंधान निदेशालय-DIRECTORATE OF SORGHUM RESEARCH)

राजेन्द्रनगर, हैदराबाद/Rajendranagar, Hyderabad-500030

Phone: 040-24599300.Faxno.040-24599304.www.millets.res.in



F.No.1-812/16-17/ST/EFC

Date: 09-12-2016

ENQUIRY

To _____

Dear Sir,

Sub:- Quotation for Purchase of Photosynthetic Measurement System eg IRGA – reg

We are interested to take up the **Purchase of Photosynthetic Measurement System eg IRGA**. Detailed specifications, quantity required etc, are detailed in Annexure-I. Please forward your quotation in **two-way bid system** in a sealed cover with super scribing of enquiry number and date to the Director, IIMR, (DSR), Rajendranagar, Hyderabad-500030.

Enquiry should be submitted in sealed envelope. The envelope shall be addressed to the Director, Indian Institute of Millets Research, (IIMR), Rajendranagar; Hyderabad -500030, (purchaser) and it should also bear the tender enquiry number and name of the **Purchase of Photosynthetic Measurement System eg IRGA**.

A DD of **Rs.200/-** towards enquiry fees and **Rs. 50,000/- towards** EMD in form of DD in favour of" ICAR UNIT-IIMR" Account payable at Hyderabad should be enclosed with technical bid otherwise your enquiry will not be considered, except those who are registered with NSIC/MEME (copy should be enclosed). In case of non supply of order as per purchase order/supply order the EMD will be forfeited.

Date and time for submission of quotation – on or before 26.12.2016 upto 02.00 pm

Date and time for opening of technical bid 26.12.2016 at 02.30 pm

In the event of date specified proposal submission for Enquiry Receipt declared as closed holiday for Office, the due date for the submission of the Enquiry will be the following working day.

PROPOSAL SUBMISSION:

Interested bidders should submit both technical and financial proposals in two parts namely.

- | | | | |
|---|--------------------|----|-------------------------|
| a | Technical Proposal | -- | Part "A" -- Annexure-I |
| b | Financial Proposal | -- | Part "B" -- Annexure-II |

The technical and financial proposal must be submitted in two separate sealed envelopes indicating clearly on envelopes as "**TECHNICAL PROPOSAL**" and "**FINANCIAL PROPOSAL**". Financial proposal to indicate a warning "**DO NOT OPEN WITH THE TECHNICAL PROPOSAL**". The envelopes containing the Technical and Financial Proposals shall be placed into an outer envelope and sealed. This outer envelope shall bear the title of the assignment "**Quotation for Purchase of Photosynthetic Measurement System eg IRGA**".

: 2 :

Technical Proposal should be prepared considering the detailed specifications of the item as mentioned in the Annexure-I. On the basis of detailed specification a check list is attached as **Annexure-I & III** which must be submitted only along with the technical proposal, duly signed and sealed. Related Catalogues/broachers should be submitted with tender for technical verification .The technically qualified bidders will be informed the date & time of opening of Financial Bid.

FINANCIAL PROPOSAL CONTENT

(a)The tender shall quote for the complete requirement of goods & services and for the full quantity as shown in Annexure –I.

(b) The rates and prices quoted shall be in Indian Rupees or in foreign currency for imported equipments (FOB Value).

(c) All duties, taxes and levies payable by the supplier under the contract shall be included in the quoted prices. The purchaser will not pay any such duties, taxes and levies separately. However Sales Tax, as legally and contractually, leviable will be quoted separately by indicating the nature and the current rate of sales tax, as applicable at the time of quoting. The Sales Tax will be paid extra at actual at the time of supply, provided the transaction of sale is legally liable to Sales Tax and the amount of the Sales Tax is contractually payable. If the supplier in its quotation does not ask for sales Tax extra, the same shall not be paid even if it asks for the same at a later.

(d) The rates and prices quoted by the supplier shall remain uniform and fixed during the currency of the contract and shall not be subject to variation on any account, whatsoever, including statutory variations, if any.

Yours faithfully,

Administrative Officer

Technical bid

**Technical bid for “Purchase of Photosynthetic Measurement System eg IRGA”
(If any tenderer is having equipments of higher/latest specifications than our specifications, kindly quote for them also in the tender)**

Make: _____

Model: _____

| Sl. No. | Specifications | Qty | Yes/ No |
|---------|--|-------|---------|
| 01 | <ul style="list-style-type: none"> • Memory: System Console with at least 128 MB RAM memory for operation. • Display: Adjustable contrast; Backlit 8 line x 40 character LCD graphic display. • Flash memory 64MB or more with at least 1GB data storage card (1 GB Data Storage card) • Power requirement: 10.5 to15 VDC. • Four rechargeable batteries with external battery charger. • Output: 9-pin to 9-pin RS-232 cable and Serial-USB adapter • System should have Two Dual (Total 4 Analysers) CO₂ and H₂O Analyzers in the sensor head for quick response, just below the leaf chamber. • Should have Ethernet connectivity. • User cleanable optics • Flash card of minimum 1 GB • On spot training for using the equipment • Training manual and related software DVD to be supplied with the System. Software Package should include: Windows interface, Mac Interface, Linux Interface, Control File Exchange, spares kit; carrying case. CO₂ analyzer: Range: 0- 3000 µmol/mol, with ≤1 µmol/mol sensitivity at about 350 µmol/mol. Accuracy: Maximum deviation: ± 5 µmol/ mol from 0 to 1500 µmol/ mol ± 10 µmol/mol from 1500 to 3000 µmol/mol Signal Noise: Typically 0.3 µmol/mol peak-to-peak at 350 µmol/mol with 1 second signal averaging; 0.8 µmol/mol maximum. With 4 second signal averaging, signal noise is typically 0.2 µmol/mol peak-to-peak. Sensor: Solid State, minimal sensitivity to motion. Orientation Sensitivity: ≤ ± 1 µmol/mol at 350 µmol/mol from any orientation. Band width: 10 Hz H₂O analyzer: Range: 0- 75 m mol/mol or 40 deg C dew point with accuracy: ≤1 m mol/mol Signal Noise: Typically 0.04 mmol/mol peak-to-peak at 20 mmol/mol with 1 second Page 2 of 5 signal averaging; 0.06 mmol/mol maximum. With 4 second signal averaging, signal noise is typically 0.03 mmol/mol peak-to-peak. Band width: 10 Hz | 1 No. | |

| | | |
|---|--|--|
| <p>Accuracy: Maximum deviation: ± 1.0 mmol/mol from 0-75 mmol/mol.</p> <p>Temperature:</p> <p>Operating Temperature Range: 0° to 50°C; with Automatic temperature control with at least $\pm 5^\circ\text{C}$ upto 50°C, with resolution: 0.2°C. Leaf chamber can be heated or cooled $\pm 6^\circ\text{C}$ from ambient</p> <p>Pressure: Built-in Pressure Sensor. Pressure Range: 65 to 110kPa absolute; Accuracy; 0.002 kPa.</p> <p>Standard leaf chamber should have minimum 6 cm² area with internal PAR sensor Two scrub tubes</p> <p>Other essential accessories</p> <ul style="list-style-type: none"> • External PAR Sensor for Ambient PAR measurements. • CO₂ injector system having CO₂ source assembly & CO₂ controller, • 12 g CO₂ cylinders (25/pack)- 4nos. • CO₂ Tank Connector for connecting to external Cylinders for use in the lab for Aci and light response curve studies. • Soda lime, WET 6-12 mesh 450g--2no. • Drierite indicating 10-20 mesh, 1lb-3 nos • Field stand for working in the field to enable to study response curves /muddy conditions and field stand for sensor head . • 8 Spare Channels for connecting External Sensors such as soil temperature, soil moisture etc. The prices should be quoted in optional. • Sturdy carrying case along with hard copy and CD of instruction manual. • The system should be capable for up gradation for chlorophyll fluorescence accessory for simultaneous measurement of Chlorophyll Fluorescence & Gas Exchange on the same Leaf Area. • List of spares to be supplied and bibliography of published papers should be submitted with the quotation. • The equipment should essentially measure all gas exchange parameters viz: Photosynthesis, transpiration, stomatal conductance, energy balance of the leaf, etc. • Any future upgradable or better specification be quoted | | |
|---|--|--|

Before submitting the quotation you are requested to read the detailed instructions mentioned overleaf.

Date: _____

Place: _____

Signature & Seal of the Firm

Email: _____

Ph .No (Office): _____

Cell: _____

Financial Proposal

| Sl. No. | Specifications | Qty | Unit Rate | Total Amount (Including TAXES) |
|---------|---|-------|-----------|--------------------------------|
| 01 | Photosynthetic Measurement System eg IRGA | 1 no. | | |

Note:

- 1) Items should be delivered at IIMR.
- 2) Sales tax/VAT should be indicated clearly.

We are herewith undertaking that the details provided above are true and to abide by the terms and conditions contained in the bid document of IIMR.

Date: _____

Place : _____

Signature of authorised official
(With seal and stamp)

Name: _____

Designation: _____

IMPORTANT INSTRUCTIONS

1. No advance payment will be made.
2. Payments will be made by RTGS/electronically within 30 days only on receipt of the stores in good condition. RTGS details may also be submitted with the tender/enquiry/quotation.
3. **You should also prepare to deposit Security money @ 10% of the quoted price in case of finalization of the order in your favour.**
4. The sales tax etc., should be clearly indicated separately wherever chargeable.
5. The acceptance of the quotation will rest solely with the Director, IIMR and reserves the right to reject or partially accept any or all the quotations received without assigning any reasons thereof.
6. Time is the essence of the order as our requirements are connected with time targeted research programmes .The date of delivery should be strictly adhered to. Otherwise liquidated damages(2-10%) will be levied as per ICAR/Govt. of India orders from time to time, if the delivery schedule is not adhered to. Part supplies not accepted under any circumstances.
7. **YOUR QUOTATION SHOULD BE VALID ATLEAST FOR THREE MONTHS FROM THE DATE OF SUBMISSION.**
8. This office will not be held responsible for any postal delay. The bids received after the due date & time will be rejected out rightly.
9. The consignment has to be supplied in 3-4 weeks time from the receipt of supply order.
10. Submit related Catalogues/broachers with detailed specifications for technical verification and evaluation.
11. The bidders are advised to read all the instructions contained in the tender document carefully.
12. All the documents required as per terms & conditions of the bid document should be page numbered and duly signed with seal by the Authorized Signatory. A certificate to this effect must be filled up and signed with seal as enclosed with the tender document.
13. Overwriting & Correction(S) should be attested properly incomplete & unsigned bids will not Considered.
14. Training of purchasers operator(s) for operating the goods ordered, as and if necessary operators(s) is/are to be trained for a period of one week at purchasers premises/supplier premises for successfully operating the goods purchased. The training shall be completed by one week or depending on the operation of the equipment, if required.
15. Any disputes arising out of this order will be subject to the jurisdiction of Ranga Reddy District

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Check list

Annexure-III

Minimum requirements to be checked at the time of opening technical proposal by the committee.

| | | | |
|----|---|-----|---------|
| 1 | Enquiry/Tender fees DDNO. Dt: | Y/N | Page No |
| 2 | EMD DD.No. Dt: | Y/N | |
| 3 | Validity of the quotation :90 Days | Y/N | |
| 4 | Delivery period :3-4 weeks | Y/N | |
| 5 | ORIGINAL- Tender form must be submitted duly signed and Stamped on each page | Y/N | |
| 6 | One supplier one Quotation only | Y/N | |
| 7 | Tax Identification Number copy of the firm | Y/N | |
| 8 | Copy of the PAN | | |
| 9 | Price Quote must be in the format enclosed Annexure-II | Y/N | |
| 10 | Turn over should equal to or more than ₹ 1,00,00,000/- in any of the three years out of last five years. (copy of IT returns and copy of Annual Accounts Certified by CA or self attested must be enclosed as proof) 2014-2015 2013-2014 2012-2013 2011-2012 2010-2011 | Y/N | |
| 11 | Any refusal or Non- supply of previous order. In case of refusal or non-supply of previous orders (Beyond the given time) the bid of such firms will not be considered. | Y/N | |

I have gone through the conditions and certified that all the information provided are true. In case of any false information given by me, my tender may be rejected for which the purchaser will not be held responsible.

Place;

Date:

Signature of the bidder

Name:- _____

Seal and stamp:- _____