



ज्वार अनुसंधान निदेशालय
DIRECTORATE OF SORGHUM RESEARCH
(भारतीय कृषि अनुसंधान परिषद/Indian Council of Agricultural Research)
राजेन्द्रनगर, हैदराबाद/Rajendranagar, Hyderabad-500030
Phone: 24015349, 24018651, Fax no.24016378



TENDER NOTICE

No: 6-8/2011-12/ST

Date:27/10/2011

To

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Dear Sir,

We have a requirement of the goods & services as indicated below, you are invited to submit your most competitive tender for the same (equipment-wise separate tender must be submitted). All the relevant details are given below.

1. The last date for submission of quotation by **12:30 PM on 26-11-2011**
2. Tender will be opened **at 1:30 PM on 26-11-2011**
3. **Rs.200/-** for each item / equipment separately as tender fees
4. **EMD @2%** on the quoted price should be enclosed with the quotation, Otherwise your tender will not be considered.
5. Demand drafts drawn in favour of **ICAR Unit – DSR Account**, payable at Hyderabad.
6. The validity of your quotation must be valid for a period of 90 days.

- i) Description of the goods required and the required quantity :
As enclosed in Annexure – 1
- ii) Guiding specification and other technical details :
As enclosed in Annexure – 2
- iii) Terms of delivery : delivery at site, viz. Director,
Directorate of Sorghum Research,
Rajendranagar, Hyderabad – 500 030.
- iv) Delivery period for goods : Within **6 to 7** weeks from the date of the purchasers signing the contract.
- v) Erection / installation and commissioning (if required, depending on the goods ordered) are to be completed within **7 - 10** days of delivery of the goods at site.

- vi) Terms of Inspection by the purchaser's representative at **D.S.R. Rajendranagar, Hyderabad – 500 030.**
- vii) Training of purchaser's operator(s) for operating the goods ordered, as and if necessary **2** operator(s) is / are to be trained for a period of One week at purchaser's premises / supplier's premises for successfully operating the goods purchased. The training shall be completed by **One week.** Or depending on the operation of the equipment.
- viii) Price structure :
- a) The tenderer shall quote for the complete requirement of goods & services and for the full quantity as shown against a serial number in the list of requirements in Annexure – 1. Unless otherwise specified in Annexure – 1, the tenderers are, however, free not to quote against all the serial numbers mentioned in the list of requirements (in case there are more than one serial number in the list of requirements).
 - 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 price. 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 date.
 - d) The rates and prices quoted by the supplier shall remain firm and fixed during the currency of the contract and shall not be subject to variation on any account, whatsoever, including statutory variations, if any. “However, sales Tax will be paid extra as per provision under Clause viii (C) above”
- ix) Receipt of goods & Terms of payment:
- a) Payment term for supply of goods, including erection / installation and commissioning (as and if applicable).
Immediately on receiving the goods at site, the purchaser will verify the quantities of the items supplied as specified in the delivery challan of the supplier and also check for any superficial damage etc., in the goods so supplied and issue a provisional receipt accordingly. If the goods supplied do not require erection / installation and commissioning at site, the purchaser, within three working days of issue of the provisional receipt, will issue acceptance certificate (of the goods) to the supplier, provided the goods supplied are acceptable in terms of the contract. However, if the goods supplied also need erection / installation and commissioning, the purchaser will issue acceptance certificate within two working days, after successful erection / installation and commissioning. The supplier will then send its invoice along with the purchase's acceptance certificates and other accompanying documents to the paying authority for payment.

The paying authority will realize the full payment to the supplier as due in terms of the contract, within seven working days of receipt of supplier's invoice, purchaser's receipt certificate and other accompanying documents, provided the same are in order.

“While claiming reimbursement for sales Tax, the supplier shall furnish the following certificate duly dated and signed, on its bill”

“Certified that the goods on which sales Tax has been charged have not been exempted under the Central Sales Tax Act or State Sales Tax Act or the rules made there under and the charges on account of sales Tax on these goods are correct under the provisions of that Act or the Rules made there under. Certified further that we are registered as dealers for the purpose of Sales Tax in the State of Under registration number We further confirm that the amount of Sales Tax shown in the bill against this contract is correct in terms of above provisio”

- b) Payment for training of purchaser's operator(s) if a applicable.
After release of payment to the supplier as per sub-para (a) above and after successful completion of training of the operator(s) in terms of the contract, the purchaser will immediately issue a certificate to this effect to the supplier. The supplier will thereafter send its invoice for training charges, along with the above certificate to the paying authority. The paying authority will release the payment to the supplier in terms of the contract within seven working days of receipt of supplier's invoice provided the invoice and the accompanying documents are in order.

- x) Paying Authority : Director,
 Directorate of Sorghum Research,
 Rajendranagar, Hyderabad – 500 030.

- xi) Liquidated Damage Clause :
If any time during the performance of the contract, the supplier encounters conditions hindering timely delivery of the goods, the supplier shall promptly inform the purchaser in writing the fact of the delay and the likely duration of the same. After receipt of supplier's communication, the purchaser shall decide as to whether to cancel the contract for the un-supplied portion after the existing delivery period, or to extend the delivery period suitably by issuing an amendment to the contract. If the supplier fails to deliver the goods and / or perform the services within the contractual delivery period for reasons other than circumstances beyond supplier's control (which will be determined by the purchaser) and the purchaser extends the delivery period, the purchaser will also deducted from the contract price, as liquidated damages, a sum equivalent to 0.5% (half per cent) of the delivered price of the delayed goods or unperformed services for each week of delay or part thereof until actual or performance. The maximum limit of such deduction will, however, be 10% (ten per cent) of the contract price of the delayed goods or services.

Further, during such delayed period of supply and or performance, the supplier shall not be entitled to any increase in price and cost, whatsoever, on any ground. However, the purchaser shall be entitled to the benefit of any decrease in price and cost on any ground, whatsoever, of the goods & services, supplied during the period of delay.

The purchaser's letter (to the supplier, with copies endorsed to others concerned) extending the delivery period will be subject to the above condition.

xii) a) Warranty Clause : **One year from date of installation of the equipment / Item.**

b) **Performance Security** :

The successful bidder will have to pay Performance Security within 21 (twenty one) days after the issue of purchase order by the purchaser, the supplier, shall furnish performance security to the purchaser for an amount of 10% (ten per cent) of the contract value, valid up to 60 (sixty) days after the date of completion of the contractual obligations by the supplier, including the warranty obligations. However, EMD will be returned on receipt of security amount.

xiii) Dispute Resolution Mechanism

If any dispute or difference arises between the purchaser and the supplier relating to any matter connected with the contract, the parties shall make every effort to resolve the same amicably by mutual discussions. However, if the parties fail to resolve the dispute or difference by such mutual discussion within 30 days, either the purchaser or the supplier may give notice to the other party of its intend on to refer the same to arbitration. The arbitration shall commence thereafter. The arbitration shall be conducted by a sole arbitrator, who will be appointed by the Secretary, ICAR and the procedure to be followed in this respect will be as per the Indian arbitration and conciliation Act, 1996. The venue, of the arbitration shall be the place from where the contract is issued.

2. **You are also required to fulfill the following conditions and furnish the details as indicated in subsequent paragraphs.**

- a) At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to 25%, the quantity of goods & services as specified in the list of requirement, without any change in the unit price or other terms & conditions.
- b) Please furnish a certified copy of your latest ITCC (Income Tax Clearance Certificate).
- c) Please indicate if you are currently registered with any Govt. organization and if registered, furnish all relevant details.
- d) Please state whether business dealings with you presently stand banned by any Government organization and, if so, furnish relevant details.
- e) A supplier shall not submit more than one quotation for the same set of goods.

- f) The supplier shall at all times indemnify the purchaser, at no cost to the purchaser, against all third party claims of infringement of patent, trademark or industrial design rights arising from the use of the goods or any part thereof, with respect to the goods quoted by the supplier in its offer.
 - g) The tender(s) as well as the contract shall be written in English language. All correspondence and other documents pertaining to the quotation(s) and the contract, which the parties exchange, shall also be written in English.
The tender and all correspondence and documents relating to the tenders exchanged between the bidder and the purchaser may also be written in Hindi language provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the quotation, the English translation shall govern.
 - h) Please mention your Tax Identification Number (TIN) along with a copy certificate of Registration.
 - i) The contract shall be governed by the laws of India and interpreted in accordance with such laws.
 - j) **The Tender / offer shall remain valid for acceptance for a period not less than 90 days after the specified date of opening of the offer.**
3. Separate Tenders for each equipment shall be submitted in sealed envelopes. The envelope shall be addressed to the Director, D.S.R. Rajendranagar, Hyderabad – 500 030. (Purchaser) and it should also bear the tender enquiry number and the words “DO NOT OPEN BEFORE at **1.30 PM** on **26-11-2011** (* The time and date of opening of the tenders). These envelopes should then be put inside another envelope, which will also be duly sealed. The outer envelope will bear the full address of the purchaser. The supplier must ensure that its tender (i.e quotation), duly sealed as above , reaches the purchaser at least one hour before the time and date of opening of tenders. The supplier may, at its choice, send the tender by Regd. Post or by speed post. Alternatively, the supplier may also hand deliver the tender to the purchaser in which case it has to be dropped in the tender box kept in the office. No receipt will be issued separately.
 4. The tenders, which are received late i.e. after **12.30 PM** on **26-11-2011** by the purchaser will be ignored. Further, the purchaser does not accept any liability and responsibility for the tenders in case the same are not properly sealed & marked and / or sent as above.
 5. The tenders, which are received on time (as per para 3 above), will be opened at purchaser's office at **1:30 PM** on **26/11/2011** (date). The purchaser will open the tenders in the presence of the tenderers duly authorized representatives, who choose to attend the tender opening.
 6. The purchaser will evaluate and compare the tenders which are substantially responsive i.e which are properly prepared & signed and meet the required terms, conditions, specification etc. The purchaser will award the contract to the supplier whose tender will be determined to be responsive and offering the best evaluated price.
 7. Notwithstanding the above, the purchaser reserves the right to accept or reject any tender or annul the tendering process and reject all tenders at any time prior to award of the contract, without assigning any reason, whatsoever, and without incurring any liability or obligation, whatsoever, to the affected tender or tenders.

8. Please submit your tender accordingly. You shall sign all the pages of your tender. Your price tender may be furnished in the format enclosed as Annexure 3.

You are also required to return this original tender enquiry (all the pages), as it is, duly signed by you on every page, for our record. You may retain a photocopy of this tender enquiry for your record.

Encl : Annexures 1,2 & 3.

Yours faithfully,
Sd/-
(W.Srinivas Bhat)
Sr. Admn. officer I/c.

LIST OF REQUIREMENTS

S No.	Description of Goods and allied services	Accounting Unit	Quantity
01	Gel documentation system	01	1
02	GC-EAD – Gas Chromatography and Electroanthenography	01	
03	GC-EAD columns GC.-EAD columns (Wide bore capillary column 30meter length) 2 nos. (polar and Nonpolar)	02	1
04	Air, N ₂ and H ₂ generators as supporting equipment for the GC-EAD	01	1
05	Air Entrainment chamber	01	1

Annexure -2**SPECIFICATIONS & OTHER TECHNICAL DETAILS
OF THE ITEMS AND SERVICES (SHOWN IN ANNEXURE - 1)**

(If any tenderer is having equipments of higher/latest specifications than our specifications, kindly quote for them also in the tender)

S. no	Item	No.	Specifications
1	Gel documentation system	01	<p>The Basic Gel Documentation System must have the following features:-</p> <ul style="list-style-type: none"> • The CCD camera must have 1.4 Megapixel camera with 12-bit A/D WITH Pixel resolution of 4.65 microns • The System Must have 12-bit A/D with 16-bit file saving, 0-4096 grayscale dynamic range • The Lens must be motorized f/1.2 zoom optics • Minimum 1392(h) x 1040(v) Megapixel resolution • Transilluminator for UV and white light illumination area approximately 42 cm x 31 cm • The system must have Motorized 5 position filter wheel • Real time image focus and fast image acquisition • Standard dual epi white lights, optional dual epi UV lights at 254, 365nm, or 254/365nm, standard dual 302/365nm trans UV on a sliding tray, and a standard real 21 x 31cm fold down white light table (not UV conversion screen) for excitation sources • Ability to upgrade system to a higher resolution, sensitivity, and bit depth camera using this cabinet for Chemiluminescence, Multiplex fluorescence western applications. • The System Must be Supplied with

				<p>automatic Image Acquisition software and Analysis Software</p> <ul style="list-style-type: none"> • The Software must have the option to modify an acquisition protocol, and save it with a new name for users to take advantage of known protocols to make minor changes • The Acquisition software must have automated flat field calibration for improved image quality. • The Acquisition software must have image acquisition and analysis tools in one software program for automatic image import into enhancement and analysis tools • The Analysis Software must have step-by-step analysis tools for densitometry, spot counting, molecular weight analysis, band pattern matching with Dendrogram's and automatic scoring • The system should be upgradeable to chemi applications later. • The separate computer and Printer must be supplied along with Gel Doc System

I. GC Coupled Electroantennograph Detector System (GC-EAD)

PART-A

1. 2-CHANNEL USB ACQUISITION CONTROLLER: 1 no

IDAC-II 2- channel signal recording system optimized for EAG and GC-EAD signals. Should connect directly to the USB port of the PC; Auto- and manual offset control and special EAG filter functions Compatible with EAG and GC-EAD software for Windows

2. MICROMANIPULATOR, Type MP-15: 1 no

Complete 'desktop-recording' configuration for EAG and GC/EAD
 Two x-y-z positioners on magnetic bases
 Stainless steel base plate 20 x 30 cm to hold positioners
 Fine joystick control of right-hand positioners
 Adjustable stimulus applicator with stainless steel tube on magnetic base
 High impedance probe and electrode holder on left-hand side
 Should connect directly to IDAC computer interface

3. STIMULUS CONTROLLER UNIT: 1 no

with built-in air pumps
 Independent from laboratory air supply
 Internal vibration compensated air pumps
 Built-in activated carbon inlet filter
 Filter should be easily replaced

Should deliver continuous and pulsed air flow
 Graphic LCD display
 Flow range 10 - 50 ml/s, non-calibrated
 Pulse duration 0.1 - 60 s in 0.1s increments
 Repeat function: interval range 1- 60 s.
 Signal outputs should be compatible with recording systems
 Suitable for EAG and GC/EAD and SSR procedures
 Including foot operated start switch

4. EAG and GC/EAD SIGNAL RECORDING and ANALYSIS PROGRAM:

For use with IDAC data acquisition systems
 Auto zero on trigger signal of base line and time base
 Real-time recording and display of signals (EAG)
 Calculation and display of EAG maxima and Normalized values
 Calculation and display of means and standard deviations
 Dual trace real-time recording of combined (GC/EAD);
 max 5 hours continuous recording, Peak area calculation
 and retention time marking on GC and EAD trace
 Amplitude and time-base zooming
 Comments stored with data
 Graphic output in Windows metafile format
 Printing of all graphic and numeric data
 ASCII data output

5. PROBES:

Eag Universal single ended, type PRS-1	
with pipette electrode holder	1 set
EAG Kombi probe Type PRG-3 for use with	1 set
Conductive gel and glass pipette electrodes.	

6. Fibre optic light source	1 no
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7. Effluent Conditioning Assembly:	1 no
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Type EC-03 Heat transfer line for GC-EAD,30cm long
 Digital temp controller max, 320 deg c

8. Gerstel 4-way splitter kit	1 no
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9. Spares and consumables	1 set
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10. Pipette puller for glass electrode preparation	1 no
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11. Data station :	1 no
P IV computer with 3.2 MHz, 320 GB Hard disc, 4 GB Ram 20 inch LCD Monitor, Keyboard, optical mouse, Printer	

PART B: GAS CHROMATOGRAPH SYSTEM

GAS CHROMATOGRAPH SYSTEM 1 no

Mainframe which can be Configured with the following items:

- Maximum of two injection inlets
- maximum of two detectors

0 to 60-psi capillary inlet system with EPC for split/splitless operation 1 no

Flame ionization detector (FID) for packed and capillary columns 2 no

GC Installation Tubing Kit should include 1 set cleaned copper tubing and brass fittings

EZChrom Elite Compact software for control, acquisition, and evaluation of data from GC. 1 no

columns:

1. HP-1 bonded-phase fused silica capillary column 1 no
non polar(50m x 0.32 mm i.d., film thickness 0.52 μ m)

2. Polar DB-WAX column (30m x 0.32 mm i.d., film thickness 0.82 μ m). 1 no

Consumables & Spares 1 Set.

Gas Purifier :(H₂, O₂, N₂) 1 set

Uninterrupted Power Supply 5kva capacity with one hour backup 1 no

II. GC COLUMNS FOR USE GC-EAD APPLICATION:

1. HP-1 bonded-phase fused silica capillary column 1 no
non polar (50m x 0.32 mm i.d., film thickness 0.52 µm)
2. Polar DB-WAX column (30m x 0.32 mm i.d., 1 no
film thickness 0.82 µm).

III.HIGH PURITY GAS GENERATORS FOR GC-EAD SYSTEM CONSISTING OF THE FOLLOWING: 1 SET

HIGH PURITY NITROGEN GENERATOR

Automatic function

LED digital display of flow rate

Specifications :

Nitrogen Purity : 99.999%
OXYGEN % : < 3PPM
Output Flow Rate : 500 ml / min
Working pressure : 0 – 0.4 Mpa
Power : 150W,
Dimensions : 370 X 180 X 330 MM
Weight : 10 kg

HIGH PURITY HYDROGEN GENERATOR

High resolution and sensitivity

LED digital display of flow rate

Specifications :

Hydrogen Purity : 99.999%
Output Flow Rate : 500 ml / min
Working pressure : 0 – 0.4 Mpa
Power : 250W, 210W
Dimensions : 370x 180 x 330 (LxWxH)
Weight : 10 kg

LOW NOISE AIR GENERATOR

Compact Low Noise

Stable Pressure Output

Automatic dehydration and filter of dust

Use with GC

Output Flow Rate : 5000 ml / min

Working pressure : 0 – 0.5 Mpa
Noise : < 35 DB
Dimensions : 420 x 250 x 350 (LxWxH)
Weight : 20 kg
POWER : 275 W

IV. AIR ENTRAINMENT SYSTEM - 1 set

With following features:

MODEL : PORTABLE TYPE
CASING : ALUMINIUM CASING
AIR SOURCE : ONE DIAPHRAGM PUMP
VACUUM SOURCE : ONE DIAPHRAGM PUMP
CAPACITY : 2.0 LITRES
FILTER : Activated CARBON FILTERS
VOLATILE COLLECTION : CONTROL BY TWO FLOW METERS
FLOW METER CAPACITY : 100 ML TO 1000 ML
OUTLET : SPLIT OUTLET PTFE
DIMENSIONS : 400 X 300 X 150MM
POWER SUPPLY : 220V, 50HZ
GLASS VESSELS WITH PLATES (6 no)

FORMAT OF TENDER PRICE

Serial No.	Description of goods & allied services	Specifications	Accounting unit	Qty	Quoted unit Price in Rs.		Total amount in Rs.
					In Figures	In words	

Grand Total Cost Rs.

We agree to supply the above goods & allied services. We confirm that the same will meet the description, specification and other technical details as required in the tender enquiry.

“ Details of applicable Sales Tax to be paid extra and the current rate of the same:

We confirm, that we agree to all other terms & conditions of your tender enquiry including the terms of delivery, period of delivery and warranty provision.

We have furnished all the information, as required in the tender enquiry and attached the relevant documents.

(In case a tenderer desires to put some additional / modified stipulations, terms & conditions etc. the same may be clearly indicated).

We confirm that our offer will remain valid for acceptance for **90** days after the date of opening of tenders.

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(Signature, name and designation of the authorized executive of the tendering firm)

For and on behalf of
(Name and address of the tendering firm)

.....

(Seal of the tendering firm)

Date :

Place: