



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

(ज्वार अनुसंधान निदेशालय-DIRECTORATE OF SORGHUM RESEARCH)  
राजेन्द्रनगर, हैदराबाद/Rajendranagar, Hyderabad-500030

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F.No.1-724/15-16/ST

Date: 07-03-2016

ENQUIRY

To \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Dear Sir,

**Sub:- Quotation for Purchase of Equipments Replacement – reg**

We are interested to take up the **Purchase of Equipments (list enclosed)**. 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.

Separate enquiry for each equipment 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 Equipment** \_\_\_\_\_.

A DD of **Rs.200/-** towards enquiry fees for each equipment separately and EMD for each equipment separately (as per list enclosed), in form of D.D./pay Order/fixed deposit Receipt/Bank Guarantee 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(Document may 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 17.03.2016 up to 12.30 pm.**

**Date and time for opening of technical bid 17.03.2016 at 01.00 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 Equipment** \_\_\_\_\_.

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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. Brochures of the make and model of the quoted item should be enclosed (wherever applicable), so that it can be technically examined. The technically qualified bidders will be informed the date & time of opening of Financial Bid.

### **FINANCIAL PROPOSAL CONTENT**

Financial proposal (In Indian Rupees) should be in the form of a lump sum amount inclusive of all taxes etc., for the said **Purchase of \_\_\_\_\_ and should be submitted in the attached Annexure – II only.**

#### **Price Structure:**

(a) The tender 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 –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 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 .

Yours faithfully,

**Administrative Officer**

**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. The price quoted should be F.O.R, RAJENDRANAGAR, HYD-30, preferably door delivery to IIMR (DSR) premises.
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 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.
9. The consignment has to be supplied in 3-4 weeks time from the placement of supply order.
10. Submit related Catalogues/broachers with detailed specifications.
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. The bids received after the due date & time will be rejected out rightly.
15. 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.
16. 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: (If availing NSIC exemption, Pl. provide Certificate)	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 ₹ 10,00,000/- in any of the three years out of last five years-Copy must be enclosed. (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	

## **List of Equipments**

*Brouchers of the make and model of the quoted item should be enclosed (wherever applicable), so that it can be technically examined.*

Sl. No.	Name of the Equipments	Qty	Tender Fee	EMD in Rs
1	Autoclave	1	200	12000
2	Laminar flow Work Station (Horizontal flow)	1	200	4000
3	UV-Vis Spectrophotometer	1	200	10000
4	Wall mounted Spilt Ac	4	200	2500
5	Auto Clave	1	200	2000
6	Hot air Oven	1	200	3000
7	PCR System	1	200	10000
8	Micropipette sets	1	200	2000
9	Hybridization oven	1	200	4000
10	UV Cross linker	1	200	4000
11	Muffle Furnace	1	200	2500
12	Vacuum pump	1	200	2000
13	10 KVA UPS	1	200	10000
14	Water Purification System	1	200	20000
15	Deep freezer (-200C)	1	200	6000
16	Gel documentation system	1	200	10000
17	Ice making machine	1	200	6000
18	Hybridization oven	1	200	5000
19	Micro centrifuge	1	200	5000
20	Computers with UPS	2	200	2500

### **NOTE :**

A DD of **Rs.200/-** towards enquiry fees for each equipment separately and EMD for each equipment separately (as per above list), in form of D.D./pay Order/fixed deposit Receipt/Bank Guarantee in favour of "ICAR UNIT-IIMR" account payable at Hyderabad should be enclosed with technical bid

**Admn Officer.**

**Technical bid**

Technical bid for "Purchase of the following Equipments"

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

**1. Autoclave**

Operating Pressure	: 15 PSI
Operating Temperature	: 121°C
Maximum sterilization temperature:	135 <sup>0</sup> C
Capacity	: 111 ltrs
Chamber Dimensions	: 300x710 mm
Outer Dimensions	: 510x1040x530
Construction	: SS 304
Power Consumption	: 4 Kw
Sterilization Time	: 0-99 mins
Voltage	: 230 V
Control	: Digital
Gross Weight	: 152 Kg
Shipping Size (mm)	: 925x850x1400

**2. Laminar Flow Work Station (Horizontal flow)**

- 1. Work area dimension (Internal) (L x W x H):** 45–48" x 24–25" x 22–24"
- 2. Work area construction material:** With 1.5mm Stainless Steel grade 304
- 3. Side panel:** made of 3–6 mm thick glass
- 4. Front door:** Framed/Frameless, Sliding type/ swinging type, door made of toughened glass/ UV stabilized polycarbonate.
- 5. Pre Filter:** Made of suitable materials with aluminum separators, washable, capable of retaining 10–15 µm (Micron) particles with 90–99.9% efficiency.
- 6. HEPA Filter:** Capable of retaining 0.3 µm (Micron) particles with 99.9% efficiency;  
Size (L x W x H 45-48"x 24-25" x 22-24".  
Made of Ultra clean glass fiber paper/ suitable imported medium.  
Encased with aluminum/ epoxy coated frame.
- 7. Motor Blower assembly:** Variable speed high quality blower with centrifugal impeller
- 8. Power:** 220-230 V, 50 Hz.
- 9. Inflow velocity:** 80–100 FPM from the face of the filter.

10. **Noise level:** Less than 66 decibel.

11. **Electrical and other fittings:**

Fitted with sufficient fluorescent light for working, Ultra Violet light for UV sterilization, switch/ microprocessor panel for controlling motor speed and lights, Bunsen burner with controlling switch, manometer for measurement of pressure, leveling devise for leveling the work station.

### **3. UV-vis Spectrophotometer**

**Justifications:** To estimate the biochemical constituents in grain, Stover juice etc., under stress and non stress conditions.

In lieu of Replacement of existing spectrophotometer (Sprectonic 20 Gensys) purchased in 1999 which is not working.

**Specifications:**

T80 High Performance Dual Beam UV-VIS Spectrophotometer with Auto 8 Position Cell Holder, wavelength range 190-1100 and a 2nm fixed band with, Prog Quantitative Card, Instruction Manual, tool Kit,

**All Standard and essential Accessories**

- \*10mm Quartz cells- 2no
- \*Tungsten halogen lamp (Spare)- 1no
- \*Black Block for dark Current Correction -1no
- \*Mains Power Lead1 -1no
- \*2A Fuse -1no
- \*Dust Cover -1no
- \*Operators Manual-1no
- \*Calibration and System Documentation -1no
- \*8 Position 10mm Path Length Motorised Cell Holder-1no
- \*Facility for automatic data transfer software including Laptop, printer, & UPS

<b>4.Wall mounted Split AC Specifications</b>		
<b>Specifications</b>		<b>YES / No</b>
BEE star rating	5	
EER range	2 – 3.5	
Noise levels	25 – 30 db	
Total Power Consumption	1200 – 1600 watts	
Compressor	Rotary type	
Remote Control	---	
Cooling	3000 – 5500 units	
Air Circulation	1000 – 1600 CFM	
Temperature Control	Digital	
Auto Restart	---	
Timer	---	
Safety Features	Virus and allergy safe filters and Triple filter	
Filters	Anti fungus and bacterial filter	
Warranty	1year	

<b>5. Autoclave</b>		
<b>Specifications</b>		<b>YES / NO</b>
Fully automatic,vertical,Floor standing	---	
Temperature range	100 - 140° C	
Pressure	100 – 130 Psi	
Display	LCD fully automatic	
Controller	Microprocessor control	
Internal memory	To store 500 cycles	
Timer facility	---	
Autofilling demineralized water	---	
Special program for waste sterilization	---	
Automatic door opening	---	
Touch Screen	---	
Rapid cooling for efficient and safe cooling of liquids	---	
Warranty	1 year	



<b>6. Hot Air Oven</b>		
Specifications		YES / NO
Temperature	25-250 c	
Noiseless Fan		
Double walled Construction		
Over heat and over current protection		
Stainless steel body	100 x 100 x 100	
Temperature accuracy	+ /- < 1°	
Display	LED	
Branded heating elements		
Safety devices		
Precise and homogenous distribution of Temp		
Double door		
Accuracy	+/- 2° C	
Ramovable shelves		
Over temperature and over pressure safety		
Warranty	1year	

## 7. PCR specifications- Gradient PCR System

- The system should be a 96 well Thermal Cycler with 6 separate peltier blocks to provide independent temperature zones to run – six different assays with varying annealing temperatures at the same time. The system should maintain thermal characteristics between optimization and isothermal condition to eliminate further optimizations.
- Each block to accommodate 16 wells and having the ability to set up PCR with a specific temperature differential of up to 5 degree centigrade between blocks. (Maximum of 5°C Zone – Zone).
- Run up to 6 separate temperatures in the same plate with user defined time to determine the optimal annealing temperatures.
- Run Time Flexibility: The system should provide for both Standard and Fast run modes in a single instrument with run times of < 1Hr. 40Mins on Standard mode and < 35Mins in fast mode.
- On board Tm calculator facility to approximate the optimal annealing temperature.
- The system should provide for Standard and Fast run modes in a single instrument with the ability to use 0.2ml / 0.1ml PCR tubes or micro-well plates.
- The system should support PCR volumes ranging from 10 to 80 microlitre
- Mouse or stylus free navigation capability with VGA colour touch screen allowing for easy intuitive graphical user interface programming.
- Choice of saving the methods up to 800 to the instrument or unlimited to a USB memory stick. The system to provide access to stored protocols or transfer protocols to Memory stick while the PCR run is performed
- The system to support Block Temperature Range starting from 4°C – 99.9°C.
- System Should have: Temperature Uniformity < 0.5°C 20 Sec's after reaching 95°C, Temperature Accuracy of  $\pm 0.25$  °C at 0°C –100°C.
- Programmable heat lid cover from 50 degree to 105 degree centigrade for efficient PCR optimization.
- Scalability: capability to interlink upto 11 PCR systems via single Ethernet hub.
- Security: The system should have the ability to store most important methods on a memory stick.
- Portability: The system should have a USB port to transfer methods from one machine to another.
- The system should allow easy product updates via USB port.
- The machine should be duly certified / authorized for PCR process and the vendor should produce the certificate for the same.
- All necessary optimized reagents and plastic ware for standard and fast thermal cycling should be made available by the vendor.
- One year warranty
- Suitable UPS to support 3 hrs of PCR run
- List of users

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**8. Micropipette sets:****Specifications :**

Adjustable volume micro-pipettes of the following ranges (one each, 8 nos. in total) 0.2 to 2 $\mu$ L, 0.5 to 5 $\mu$ L, 2 to 20 $\mu$ L, 10 to 100 $\mu$ L, 20 to 200 $\mu$ L, 100 to 1000 $\mu$ L, 0.5 to 5mL and 1 to 10mL. With high accuracy, lockable, antimicrobial treatment to protection against contamination. Compatibility with universal tips in the relevant ranges.

**9. Hybridization oven:** Compact benchtop design, rotisserie and rocker options, up and over door for accessibility. Transparent front/top window for inside view, variable speed control, accurate temperature control, advanced safety features. Temp Ambient +10C to 70C; fluctuation permissible 0.5C only, LCD Temperature display, Rotiosserie (10 to 15 rpm) with 8-12 bottle holder, with bottles; orbital motion platform to be provided. Power supply: 230v/50Hz; warranty one year or more

**10. UV cross linker:** Designed for binding nucleic acids to membranes, bench top, UV source (in the range 254nm to 364nm) for cross linking, Microprocessor controlled, Preset or user selectable UV time exposure and energy settings, 1-100 min exposure range, visible front panel LED, with non-UV transmissible front door with safety switches Power supply: 230v/50Hz; warranty one year or more

**11. Muffle Furnace:** Standard make, Dimensions: Inner size (L x W x D): 6" X 6" X 12", Temperature: Max Temp; 1200 degree centigrade; Working Temp: 1160 degree centigrade; Power: 3.5 KW. Power supply: 230v/50Hz; warranty one year or more

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**12. Vacuum pump. (Specifications):**

- Materials: Die cast aluminum body and pump-head, Armalon+covered neoprene diaphragm, Hypalon head-gasket, polyurethane filters, and high grade S.S. leaf valves. All internal pump surfaces are Teflon-coated.
- Power: Shaded-pole, Single phase, 1/8 HP, 115V 60 Hz AC, 100V, 50/60 Hz AC,
- Connections: 3-conductor (grounded) cord and plug with inlet and outlet hose connectors. Hose connector for 4 mm I.D. tubing
- Cord for 220V unit .
- Dimensions: 7 5/8" L (20cms) X 7 1/8" W (18cms) X 11" H (28cms) overall.
- Flow Rates: Air flows at different vacuum and pressure settings. For vacuum operation, pump exit pressure should be 1 atmosphere (14.7 psi)

### **13.10KVA UPS**

- \* 10 KVA 3 phase input/single phase output UPS with 2 hrs back up,
- \* SMF batteries, battery stand, cables and links

### **14. Water Purification System**

- \* Ultrapure water purification system with water flow rate of 5-10 l/h
- \* 10-15 mΩ.cm resistivity of product water, free of bacteria and endotoxins,
- \* system with LCD display, system alert, prefiltration unit
- \* 50 liters water reservoir

### **15. Deep freezer (-200C)**

- \* Upright or horizontal deep freezer (-20 oC) with 300-500 liters storage capacity
- \* Removable tray system
- \* Temperature display; temperature adjustable from -20 to -4C
- \* Standard make
- \* Suiting voltage stabilizer

### **16. Gel documentation system**

- \* Gel documentation system with imaging area of minimum 20x26 cm
- \* Applications of gel documentation, fluorescence, colorimetric/ densitometry
- \* Camera with high resolution of minimum 4 megapixels,
- \* Computer/laptop with image software compatible with Windows or Mac OS

### **17. Ice making machine**

- \* Table top ice making machine with production capacity of minimum 30 kg/24h
- \* Bin capacity of minimum 10 kg
- \* Stainless steel,
- \* Automatic water trap,
- \* Microprocessor control with LED indicator
- \* Suitable stabilizer

## **18. Hybridization oven**

- \* Compact bench top design, rotisserie and rocker options, up and over door for accessibility.
- \* Transparent front/top window for inside view,
- \* variable speed control,
- \* accurate temperature control,
- \* advanced safety features.
- \* Temp Ambient +10C to 70C; fluctuation permissible 0.5C only,
- \* LCD Temperature display,
- \* Rotisserie (10 to 15 rpm) with 8-12 bottle holder, with bottles
- \* orbital motion platform to be provided

## **19. Micro centrifuge**

- \* Bench top micro centrifuge with 24 x 1.5/2.0 mL capacity rotor with lid,
- \* 24x1.5/2 ml spin column kits capacity rotor with lid,
- \* 4 places of PCR strip capacity rotor with lid,
- \* speed up to 15,000 rpm or more,
- \* full-digit digital display of speed and time

## **20. Computers with UPS - 2 No's.**

Intel Core i5-4440 Processor, Intel Mother board, 4GB DDR3 RAM, 500 GB SATA Hard disk  
Logitech/Microsoft Keyboard & Optical Mouse, DVD Writer, 20" LED Monitor  
ATI HD 5450 2GB DDR3 Graphics card, iBall ATX Cabinet, with Window 8.1 operating system  
**UPS:** 1.0KVA, 1Hour backup

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: \_\_\_\_\_

