

**Department of Biotechnology  
Pondicherry University  
Puducherry-605014**

Sealed quotations under two bid systems are invited for the purchase of the following laboratory equipments for the Department of Biotechnology. The quotations can be submitted for one or more equipments. The quotations duly signed and sealed should be submitted to **Dr. N. Sakthivel, Professor and Head, Department of Biotechnology, Pondicherry University, Puducherry-605 014.**

The quotation should be sent by post (normal/speed/Registered/courier) only. The price quoted should include all the costs such as delivery, installation, testing etc and also inclusive of all taxes. Warranty terms should be explicitly specified in your quotation. The technical specifications are given below. Last date for receiving quotation is **21.02.2012**

**Name of the required items:**

- |  |         |
|--|---------|
| <b>1. Ice Flaking Machine</b>                          | : 1 No. |
| <b>2. Electroporator</b>                               | : 1 No. |
| <b>3. Liquid N<sub>2</sub> Storage Container</b>       | : 1 No. |
| <b>4. UV Spectrophotometer</b>                         | : 1 No. |
| <b>5. Microprocessor Controlled -86°C Deep Freezer</b> | : 1 No. |

The detailed specifications of the individual equipments are given below:

**1. Ice Flaking Machine**

Ice Flaking Machine with a capacity of 70 kg ice flakes per day and 25 kg storage. The instrument should have the electronically controlled operation feature (self-diagnostic functions with external alarm lights), pressure based water level monitoring system, corrosion-resistant stainless steel external components, front door for easy access to ice flakes and filter-free air cooled condenser. The equipment should use CFC Free R-134 Refrigerant.

**2. Electroporator:**

The design of the electroporator system should allow the efficient transformation of Bacteria & Yeasts. The equipment should have simple one-button operation for electroporation, two program buttons allow the storage and recall of most commonly used parameters and default settings, GLP-compliant documentation feature via USB port and features to display the actual voltage and time constant after the electric pulse along with specifications viz.

Time Constant : 5 ms  
 Output waveform : Decaying exponential waveform with RC time constant of 5 ms.  
 Pulse Voltage : 200 V-2500V  
 Charging time : <10 S  
 Interface : USB 2.0  
 Weight : should not exceed more than 3.5 kg  
 100 numbers of 100 µl filling capacity electroporation cuvettes.

### 3. Liquid N2 Storage Container

The equipment should have the storage capacity of 40-50 Liters of liquid nitrogen, six numbers of canisters with the capacity to keep at least 30 cryo storage boxes, low liquid nitrogen consumption (static evaporation rate should be below 0.5L/day), durable and tamper proof lid and racks made of the light weight material.

The following accessories should be supplied along with the container.

- a. Pair of Cryo gloves
- b. Roller base for easy move
- c. Measuring stick to check the liquid nitrogen level

### 4. UV Spectrophotometer:

The UV spectrophotometer should possess universal sample cell holder with minimum 4 cells, a micro volume cell holder, user-friendly software with scanning & time course capabilities and with the following specifications:

Photometric system	: Double beam optics
Light source	: Tungsten-Halogen & Deuterium Lamp
Wavelength range	: 190 nm to 1100 nm
Spectral Band width	: Less than 1.0 nm
Detector	: Silicone photo diode
Monochromatic	: Modified czemy- turner type with 1200 lines/mm blazed grating or Holographic, concave grating with 1053 lines/mm
Photometric range	: -0.5 to 4.0 ABS
Photometric accuracy	: +/- 0.001 to 0.005 ABS (at 1.0 ABS)
Photometric reproducibility	: +/- 0.002 ABS
Stray light	: Less than 0.05% T at 220nm & 340nm
Baseline flatness	: Less than or equal to +/- 0.001 ABS (220nm to 1100nm)
Wavelength accuracy	: Less than or equal to +/- 0.3nm (at D2 peak 656.1nm, 486.0 nm)
Wavelength reproducibility	: Less than or equal to 0.1 nm
Wavelength setting	: 0.1 nm

Wavelength slew rate	: about 5000nm/min
Wavelength scanning speed	: maximum 3000nm/min
Noise level	: Less than or equal to 0.001A
Drift	: 0.002A/hr at 340nm
Stability	: +/- 0.002A/hr

## **5. Microprocessor Controlled -86°C Deep Freezer**

Microprocessor Controlled -86°C Deep Freezer should have programmable controls and temperature display, double door and four fixed position solid stainless steel shelves with four interior compartment doors, each shelf with the capacity for 4 racks (Total 16 racks/Freezer), each rack with the capacity for minimum of 18 boxes of 2" inches, durable, power coated gal annealed interior, padlock-compatibility and door handle with integrated key lock, CE certification and ISO 9001 certification.

The Deep freezer should have the following features:

1. Temperature range : -70°C to -86°C
2. Temperature Increments : 1°C
3. Capacity ltrs. : Approximately 500 Ltrs.
4. Voltage : 230V, 50/60 Hz

## **TERMS AND CONDITIONS**

### **I. General Information:**

a) **Last date and time of receipt of the Tender: February 21, 2012 at 3.00 PM**

b) Quotation/ Tender document Fee: Rs.500/-

c) EMD rates: 2.5% of the quoted price

d) Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University's Purchase Committee, reserves the right to select the equipment any bid under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support & training, offer of additional / special features, Compatibility with the existing System, etc.

e) The Quotation/Tender Document Fee and EMD should be submitted along with your quotations.

f) The Tender must be submitted along with the stipulated EMD fee in the sealed cover, superscribing "**Tender for Department of Biotechnology Equipments**". The name and address of the bidder should also be mentioned at the "From address" space.

g) The Tender should be addressed and posted to the following address by speed, registered post or by courier.

**DR. N. SAKTHIVEL, Professor and Head, Department of Biotechnology, Pondicherry University, Puducherry – 605 014**

h) Tenders will not be accepted through fax / e-mail.

## **II. Common Conditions (Import or Indigenous)**

### ***1. Price Schedule***

The rates should be quoted for a single unit and also for the total quantity required by the University. The price should include the Delivery, installation, training charges, etc. at the respective Department, Pondicherry University. The prices quoted shall remain firm until the Equipment is supplied to the respective Department, Pondicherry University.

### ***2. Quoting the Core price & Tax, Duties, Discount etc.***

The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.

### ***3. Eligibility:***

The firm must have the requisite domain expertise with regard to supply, installation and post-sale service of the items they are quoting. The firm should have been in existence for at least six years as on the date of this Tender and must have executed at least three orders for this kind of Equipment) during the last three years.

### ***4. Duty Exemption***

The University has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Re-search (DSIR), India, vide their Notification No.10/97, dated 01-03-1997 and No.51/96 dated 23.07.96 respectively, in respect of

- a) Scientific and technical instruments, apparatus, equipment, Software including computers.
- b) Accessories and spare parts of goods specified in (a) above and consumables.
- c) Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, micro-chips etc.
- d) Prototypes.

Customs duties at Indian port, if any, will be to the account of the University.

### ***5. Technical Specifications***

- i. **WARRANTY:** The Equipment covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of at least 36 months (**preferably 3 years**) from the date of putting the system into operation at the Department of Biotechnology, Pondicherry University, or at least 42 months from the date of receipt of the last lot of the consignment.

- ii. If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
- iii. Complete technical specifications of the Equipment including the Operating system to be included in the bid.
- iv. The necessary service support should be provided by Bidder during the agreement period.
- v. The training should be provided by the supplying companies.
- vi. Operating Manual should be provided in English.
- vii. A recent customer list (within last five years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
- viii. If the Equipment is proprietary a product, a proprietary product certificate should be enclosed.
- ix. The Equipment must operate at 230V / 50 Hz single phase and / or equivalent three phase electrical power.
- x. **The validity of the each quotation should be at least for THREE MONTHS from closing date.**
- xi. The offers will not be considered if received after the bid closing date and time.
- xii. The offers received through telex / telefax / e-mail will not be accepted by the University under any circumstances.
- xiii. The University shall not be responsible for any delay / loss or non-receipt of the tender by post / courier service.
- xiv. No unsolicited correspondence shall be entertained after the submission of the offer.
- xv. If an order is placed with the firm, the purchase shall be governed by an agreement as per the University rules in force at the time.
- xvi. Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
- xvii. Tender is not transferable.
- xviii. In case of any dispute in respect of the Tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.

**6. Power to reject the offer:**

- i. Pondicherry University reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.
- ii. No Agency commission will be paid to any authorized agent in India.
- iii. Liquidated damages: Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In case of failure to supply within the time specified in the Purchase order, a penalty / LD of 0.5% of the total value per week or a part thereof shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of Pondicherry University shall be final in this regard.
- iv. Bidder(s) must be authorized business partners of Global / National service providers of the respective Equipment.
- v. The Bidders must enclose authorization letter from the respective global / national service providers of the above said Equipment particularly mentioning an undertaking that in case of default by the Bidder, they (Global Service Provider) shall take over all the responsibilities of the Bidder.

vi. The Bidder should not be involved in any Bankruptcy filing for protection from it.

### **III. Specific Conditions for Imported Equipments**

#### **1. Payment of EMD:**

The Quotation must be accompanied by EMD as stated above, by means of a Demand Draft, drawn in favour of **The Finance Officer, Pondicherry University, payable at Puducherry**. The Small Scale units are exempted from payment of EMD provided they enclose the proof of their exemption Certificate issued by the competent authority.

#### **2. Payments terms:**

Normally a payment 90% will be released after the installation & training. However, 100% payment will be released **if the supplier provides Bank Guarantee** towards performance Security for the 10 % of the total cost of the furnace to cover the warranty period. Bank charges in India shall be borne by the purchaser and outside India shall be borne by the contractor / supplier. The offer must be in English. The rates should be indicated both in figures and words against item specified in the given table. It is preferable that the price be quoted in US Dollars or in major foreign currencies.

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