

PONDICHERRYUNIVERSITY

(A Central University)

(www.pondiuni.edu.in)

Kalapet, R.V. Nagar

Puducherry-605 014

Tender Notice for Laboratory Equipments

Pondicherry University invites sealed tenders under Single Bid system (Technical and Commercial) for purchase of MINOR LABORATORY EQUIPMENTS. The complete details are available on the University website: www.pondiuni.edu.in.

The last date and time for submission of tenders is 25th July 2019 at 3.00 PM.

Principal Investigator, ICMR project

Department of Biochemistry and Molecular Biology

TENDER DOCUMENT

PONDICHERRY UNIVERSITY

(A Central University)
(R.V.NAGAR, KALAPET, PUDUCHERRY – 605 014)

SCHEDULE OF TERMS & CONDITIONS

PU/BMB/CS/2018-19/ICMR/EQ/minor equipments & microinjection Date: 4.07.2019

Sub: Supply of Scientific Equipment – Department of Biochemistry and Molecular Biology – ICMR project - Reg.

Schedule of Requirements

Sealed tenders are invited under a single bid system for supply of Scientific Equipments under ICMR project to Dr. C. Subbulakshmi, Principal Investigator, Department of Biochemistry and Molecular Biology, Pondicherry University, Puducherry 605014. The last date for the submission of tender is 25th July 2019, 3.00 PM. The technical details and specifications are given below:

Code: PU-BMB-CS-ICMR-EQ-2018

Technical specifications:

CS-I:

1. - 20°C Upright Freezer and refrigerator

Capacity : 344 to 450 L
 Temp : -17°C ~ -24°C

• Dimension (inches) : 23(W)x 23(D)x 73(H)

• Wheels : Yes (Rear)

• Lock : Yes

No. of baskets : minimum 8No. of lids/ doors : 1 or 2

• Should be quoted with an appropriate stand and a stabilizer.

• Refrigerator:

Capacity: 340 to 450 LTemp: 0°C ~ 10°C

Lock: yes

No. of baskets/shelves: 4No. of lids/doors: 1 or 2

2. Vertical Electrophoresis unit

Sl. No.	Specifications			
1.	No. of gels to be run at a time	1-4		
2.	Gels	Ability to run either precast or hand cast gels		
3.	Gel size (W x L)	Short plate 10.1 x 7.3		
4.		Spacer plate 10.1 x 8.2		
5.	Running time	35-45 min at constant Volt/current		
6.	Accessories	1. Glass plates (5 sets)		
		2. Casting stand (2 No.'s)		
		3. Casting frame (4 No.'s)		
		4. Sample loading guide		
		5. Electrode assembly		
		6. Companion running module		
		7. Tank		
		8. Lid		
		9. Power cables		
		10. Mini cell buffer dam		

3. Horizontal Electrophoresis unit

Sl. No.	Specifications		
1.	Electrophoresis system	15 x 7 cm platform	
2.	Accessories	1. 4, 8, 15 & 20 well combs	
		2. UV transparent tray (15 x 7 cm W x L)	
		3. Casting gates	
		4. Mini-gel caster	
		5. Electrode assembly	

4. Semi Dry Western blot transfer unit

Specifications:

- Transfer should take place in 15-60 min.
- The system should have the capacity to transfer four precast or hand cast gels in a single run.
- The unit should possess single-step locking system allowing simple and speedy setup.
- Platinum-coated titanium anode plate electrodes and stainless-steel cathode plate electrodes must be provided for the long lasting of the unit.
- Safety cover to break the electrical current when lifted to preventing electrical shock.
- The unit should be able to perform Western blotting, Nucleic acid transfer-Northern and Southern blot transfers.
- The system should support DNA and RNA transfer from agarose gel.
- Should provide 0.2 μm to 0.4 μm PVDF membrane and precut filter paper regular size

5. Wet transfer unit

- Should have a single stand alone system capable of transferring two mini gels (10 X 7.5 cm) in less than 1 hr, overnight transfer with low intensity should also be possible.
- Should contain buffer tank, cooling unit, gel holder cassette, foam pads, thick blot filter papers, central blotting core, and color coded electrodes.
- Should be capable of transferring nucleic acids >10 kb, protein >100 k Da.
- Should provide 0.2 to 0.4 µm nitrocellulose membrane and precut filer paper regular size.

6. Table top Micro centrifuge

- It should have a fixed speed of 6000 RPM/ 2000 x g.
- Should have 6 place rotor for 1.5 mL tubes and 2 place rotor for 8 x 0.2 mL tubes.
- Independent ON/OFF switches with an appropriate lid.
- Must provide adapters for 0.5 mL tubes.

7. Test tube Rotator

- Rotation should be set from 5-50 RPM.
- Timer should be set from 0-99hrs/1-59min.
- Angle of rotation should be adjustable from horizontal for minimal mixing to vertical for full end over end mixing.
- Must have Plastic coated spring clips.
- The quote must include a disk for 24x1.5 mL tubes

8. Poly bag sealing machine

- Should be 12"/300mm length and 2mm wide.
- Should be able to seal plastic bags made up of polyethylene, polypropylene, polyvinyl chloride, cellophane, polyolefin, and laminations.

9. Digital Dry Block Heater

- The machine should have at least dual block capacity for 1.5 mL & 0.5 mL insertions.
- Controller type PID digital
- Temperature range +5 to 100°C (ambient at 25°C)
- Temperature control accuracy at $37^{\circ}C \le \pm 0.5^{\circ}C$
- Temperature uniformity at $37^{\circ}C \le \pm 1^{\circ}C$
- Timer range 0-99.59 min or continuous
- Heating up time $\leq 20 \text{ min } 30^{\circ}\text{C} \text{ to } 100^{\circ}\text{C}$
- Humidity tolerance $\leq 80\%$
- Should work in 240V

10. Digital Unstirred Water bath

- Outer wall of Mild steel finely polished.
- Inner chamber should be of Stainless Steel along with a lid.
- Temperature range: Ambient + 5 to 100°C.

- Must have digital display for temperature.
- Size 27(L) x13(B) x 12(H).
- Accessories: 1. Stainless steel stands for 1.5 mL and 0.5 mL microcentrifuge tubes.
 - 2. Suitable Thermometer with a fixed stand in the water bath.

11. Rocker

• Rocker with 2 tier

• Speed 10-50 RPM

• Timer 99 hrs 99 mins

• Power: 230V, 50Hz

12. Homogenizer

• Should retain a high percentage of cell nuclei and mitochondria in soft tissues or from cell cultures.

- Friction must be minimal to reduce the heat generation.
- Must provide mortar with a loose pestle and a tight pestle.
- Tight Pestle "A" Specification: 0.0010-0.0030 in (0.025 0.076 mm), Loose Pestle "B" Specification: 0.0035-0.0055 in (0.089 0.14 mm).
- Must be autoclavable.

13. Microwave oven

• 17-25 L capacity; digital display for timer and power control; beep/alarm for timer.

14. Vacuum pump

• Piston powered oil free pump.

• Should contain moisture trap/vacuum regulator.

• Should be able to filter liquid.

Power: 220V/50hrVacuum -670 mmHg

Max flow rate: 18 l/minMotor rotation 1450 RPM

• Horse power: 1/8 HP

• Port. Thread 5/16"

• Noise level: 50dB

CS-II: Digital weighing balance & power pack

i. Digital weighing balance

• Capacity: 120 gms

• Minimum Display : 0.1 mg

• Pan Size : Ø 91

• Main Body Dimensions (mm) approx. : 210(W) x 340(D) x 325 (H)

Weight (kg) approx.: 6.2 KgPower Requirement: 12V, 1A

• Touch-key Calibration (Internal Calibration)

• Easy setting Best fit to weighing application.

ii. Powerpack power supply

- Should contain an Output range of 10-300V, 10-400 mA.
- Output should be fully adjustable in 1 V steps 4-400 mA, fully adjustable in 1mA steps 75W maximum.
- Type of output: constant voltage, constant current.
- Timer 1-999 min.
- Output terminals should be four.

• Pause/resume run function must be present.

CS-III: Microinjection unit along with Stereo Microscope

i. Micro injection unit

- Clean function: 6000 hPa (87psi)
- Compensation pressure: 5 6000 hPa
- Injection pressure: 5 6000 hPa
- Injection time interval: 0.10 99.99 s
- Pressure supply: internal compressor/external
- Injection volume ranging from femto to micro L
- Semi-automatic injection with micro manipulator
- Appropriate microscope adaptor should be provided

Micro manipulator:

- X, Y, Z axis electronically controlled with integrated joystick, capable of coarse, fine and extra fine movements
- Resolution of $0.2 \mu m$ for fine movements. The system should be capable of moving the tool for a maximum distance of 20 mm.
- System should have travel speed of 10,000 μm/s
- Micromanipulator should not have handedness, should be capable of fitting in any side of any microscope

Injection capillaries/ needle parameters:

- Should include both narrow taper and long taper capillaries
- 0.5 μm inner diameter and 1.0 μm outer diameter; 0.5 μm inner diameter and 0.7 μm outer diameter
- Appropriate grips for each capillary size should be provided

Tips to load injection needles:

Embryo holding capillaries/needle features:

• 15 μm inner diameter, embryo holding end 100 μm, 35° tip angle and flange length 1 mm.

ii. Stereomicroscope:

- Observation should be under fluorescence (blue/green excitation, UV excitation), polarized light, bright field, dark field and oblique.
- Zoom ratio should be 16:4
- Magnifications should be indicated ranging from 0.7 to 11.5.
- Should have Galilean optical system.
- Fluorescence illuminator with Hg, Xenon, and light guide.
- Should have motorized as well as manual focusing for coarse and fine focus.
- Revolving nosepiece should be manual standard type.
- Observation should be wide-field with tube inclination angle of 5-45°.
- Extendable eye-point adjuster with height adjustment ranging from 30-150 mm.
- The quote must include:
 - a) Portable Liquid nitrogen container of 1.75 L with canisters and carry bag.
 - b) A suitable split Air Conditioning (AC) unit (1.5 Tons) with stabilizer or UPS to maintain ambient temperature for the instruments.

TERMS AND CONDITIONS

I. General Information: -

1. Last date and time of receipt of the Tenders: 25.07.2019, 3.00 PM

2. Date and Time of opening of Tender: 25.07.2019, 3.30 PM

3. Tender Document fee: Rs. 500/-

4. EMD rates: consolidated Rs.10, 000/-.

- 5. The bidder can quote separately or entirely for equipments listed in <u>CS-I to CS-III</u> required for the ICMR Project. Under CS-I, equipments can be quoted separately or entirely whereas CS-II and CS-III must be quoted as per requirement.
- **6.** 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 tender under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support, additional warranty, offer of additional / special features, Compatibility with the existing System, Training, etc.
- 7. The Tender Document Fee and EMD should be submitted in a separate cover superscripting Bank Demand Draft and which should be enclosed with the technical bid.
- 8. The tender / quotation must be submitted along with the stipulated tender document fee and, EMD in the sealed cover, super-scribing "Tender ICMR project, Department of Biochemistry and Molecular Biology".
- **9.** The cover should also contain the information like, Name of the Equipment and Serial Number of Equipments for which the bids are submitted. The name and address of the bidder should also be mentioned at the from address space.
- 10. The tenders should be addressed to

Dr. C. Subbulakshmi, Principal Investigator, ICMR project, Department of Biochemistry and Molecular Biology, Pondicherry University, Puducherry 605 014.

- 11. Quotations will not be accepted through fax / e-mail.
- **II. Common Conditions**

1. Purchase of Tender Document:

The Tender document can be downloaded from the University website **www.pondiuni.edu.in.** The downloaded application should be accompanied with the tender document fee, in the form of a Demand Draft. Separate technical and price bid should be submitted.

2. Price Schedule

The bidder can quote separately or entirely for equipments listed in <u>CS-I to CS-III</u> required for the ICMR Project. Under CS-I, equipments can be quoted separately or entirely whereas CS-II and CS-III must be quoted as per requirement. The price should include the Delivery, installation, training charges (if any), etc. at the respective Department, Pondicherry University. The prices quoted shall remain firm until equipment is supplied to the respective Department, Pondicherry University.

3. Quoting the Core price & Tax, Duties, Discount etc.

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

4. 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 three to ten years as on the date of this tender.

5. 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 Research (DSIR), India. vide their Notification No.10/97 dt. 01-03-1997 and 51/96 dt. 23.07.96 respectively,

In respect of

a. Scientific and technical instruments, apparatus, equipment 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.

6. Warranty:

The material covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of **three years** from the date of putting the system into operation at the Pondicherry University.

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.

7. The information pertaining to infra-structural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided by the bidder,

at least 60 days in advance of the installation to be commenced if purchase order is issued. All drawing for electrical connections, electrical safety items piping work etc. must be provided in detail

- **8.** Complete technical specifications and literature, including process flow, to be included with the quotation. Manufacturers of various major parts/equipment must be mentioned explicitly.
- **9.** A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
- **10.** A recent customer list (within last two years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
- 11. If the bidder is an authorized representative in India, they are requested to inform their technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.
- **12.** The bidder from abroad shall obtain, if required, export permission from the appropriate authorities in his country or the country of origin for items to be shipped to India in case of items to be imported. The University shall provide necessary information if required for this purpose.
- **13.** All equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.
- **14.** The validity of the each quotation should be at least 1 Year from closing date of the bid.
- **15.** The offers will not be considered if received after the bid closing date and time.
- **16.** The offers received through telex / tele-fax / e-mail will not be accepted by the University under any circumstances.
- **17.** The University shall not be responsible for any delay / loss or non-receipt of tenders by post / courier service.
- **18.** No unsolicited correspondence shall be entertained after the submission of the offer.
- **19.** 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.
- **20.** Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.
- 21. Tender is not transferable

22. 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.

23. Power to reject the offer:

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.

- **24.** No Agency commission will be paid to any authorized agent in India.
- **25.** 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.
- **26.** The training should be provided by the supplying companies on the specimen and operation of the equipments for two to three days from the date of installation with an expert team.
- **27.** For any clarification with respect to technical specifications, please contact the Principal Investigator as per the details given below: -

Dr. C. Subbulakshmi,
Principal Investigator, ICMR project,
Department of Biochemistry and Molecular Biology,
School of Life Sciences,
Pondicherry University,
Puducherry-605014.

Tel: 91-413-2654537; Email: csubbulakshmi@gmail.com

III. Specific Conditions:

1. Payment of EMD:

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

2. Payments terms:

Normally a letter of Credit will be opened for 90% of CIP price, on receipt of order acknowledgement. However, 100% of the LC also be considered, if the supplier provide Bank Guarantee towards performance Security for the 10 % of the total cost of the equipment 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.

3. 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 Rupees or in US Dollars or in major foreign currencies.

4. The total cost should be quoted for FOB as well as CIF – Pondicherry University.

- **5.** However, the price quoted under FOB or should also include the following cost if they are required during the initial stage:
- a) Local freight / insurance for Chennai airport to University laboratory.
- b) Installation cost if any, Cost of consumables which are required for the equipment for initial operation up to reasonable time.
- **6.** In case of the Principal supplier of foreign country unable to meet the conditions stated at para no.4, the local agent / dealer should fulfill the above said conditions in respect of Local Insurance, Freight, safety transport and installation, etc.
- 7. The bidder from within India shall obtain the requisite approval for Imports etc., if required

Date: 4.07.2019 PRINCIPAL INVESTIGATOR, ICMR Project.

ANNEXURE - I

BANK GUARANTEE

Pondicherry University

Bharat Ratana Dr. B R Ambedkar Administrative Building

R Venkataraman Nagar

Puducherry 605 014

This guarantee made this	day of	201_ by
Bank having its Registered Office at _	_	and one of its branches
At		after referred to as "the Guarantor"
which expression shall, unless it be	repugnant to the subj	ect, meaning or context thereof, be
deemed to mean and include its succe	essors and assigns) in fa	avour of the Pondicherry University,
Puducherry 605 014 represented by i	ts Registrar, having hi	s office at R. Venkataraman Nagar,
Kalapet hereinafter referred to as	the "University " w	rhich expression shall include his
successors		
in office for an amount not exceeding	Rs(Ru	pees
	only) at the reque	est of
M/s.		nore fully described hereunder)
2. Whereas the University has placed dated for		U/
M/-		
M/s.		having its office at
		and hereinafter referred
to as the "Contractor" which expression		
3. And whereas the Contractor has a order as per undertaking / agreement manner specified therein.		-
4. And whereas the University has ca	lled upon the Contract	or to furnish Bank Guarantee for the

sum of Rs. (Rupees only) for fulfillment of the said work as specified in the work order and as

agreed to by the Contractor.

5. And whereas the Contractor has requested the Guarantor herein to furnish an irrevocable and unconditional Bank Guarantee in favour of the University for an amount of Rs. as guarantee towards execution of the work as agreed to by the contractor to the University.
6. Now, therefore, we Bank, the Guarantor herein, do hereby irrevocably and unconditionally Guarantee the payment to the University the sum not exceeding Rs (Rupees only) in the event of any breach, failure, neglect or inability on the part of the Contractor in the execution of the said work, on demand without reference of the matter to the Contractor and without any prior consent of the
Contractor, at all times throughout the period of execution of the work, without demur, cavil or argument or delay.
7. The Guarantor agrees and undertakes that the decision of the University as to whether the contractor has committed any breach of the obligation with respect to the wok to be executed, and the quantum of amount therefore payable by the Contactor to the University in that regard, shall be final, binding and conclusive as against the Guarantor and the Guarantor shall make payment accordingly, on demand by the University.
8. The Guarantor further agrees and undertakes to pay to the University the amount demanded by the University irrespective of and not withstanding any dispute raised by the Contractor in any suit or proceeding before any judicial forum relating to the Contracted work and the Guarantor"s liability under this Guarantee shall be absolute and unequivocal.
9. This Guarantee is issued subject to the condition that the liability of this Guarantor under this guarantee is limited to the maximum of Rs (Rupees
only) and the
guarantee shall remain in full force up to and cannot be invoked otherwise than by a written demand or claim by the University for the payment of the said amount by the Guarantor on or before or any extended date as decided by the University.
10. This University shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the contracted work or to extend time for performance of the work by the Contractor. Any change to the contracted work shall not in any way release the Bank (Guarantor) from liability under this Guarantee and we waive notice of any such change. The University shall have full liberty to forbear or enforce any of the terms and conditions of the contracted work.
11. This Guarantee shall not be affected by any legal limitation, disability or other circumstances relating to the Contractor or the Guarantor.
12. This Guarantee shall be valid for the period upto and shall extend further and
Beyond for such period as determined by the University.

the University in writing.		
14. Notwithstanding anything contained	herein:	
(Rupees	only)	
This guarantee shall be valid upto	and for such further period as de	etermined by the
University for fulfillment of the contract.		
We are liable to pay the guaranteed amou and only if you serve upon us a written of	* *	Guarantee only or such
extended period / date.		
In witness whereof, this Guarantee has be	een executed by	for an on
behalf of the Bank (Guarantor) on the day	y, month and year first above written.	
SIGNATURE AND SEAL		
NAME OF THE BANK (GUARANTOR	(2)	
ADDRESS:		

13. The Guarantor undertakes not to revoke this guarantee except with the previous consent of

ANNEXURE - II BIDDER"S WARRANTY

The Registrar, Pondicherry University, Puducherry invited Bid Document for supply and			
installation of the equipment(s)			
namely,	at		

Thereinafter referred to as "The Bidder" having carefully studied all the bid documents, Specifications, etc. accompanying the tender for supply of the above mentioned Equipment and desirous to submit the bids as per the Tender Document advertised vide Notification No. PU/FST/EQ/XII Plan/2014-15/ dated10.04.2015

DO HEREBY WARRANTY THAT

- 1. The bidder is familiar with all the requirements of the bid documents.
- 2. The bidder has investigated the site and satisfied, he regarding the character and scope of the work and local conditions that may affect the supply or its Performance.
- 3. The bidder is satisfied that the supply can be performed and completed as required in the contract.
- 4. The bidder accepts all risk directly or indirectly connected with the performance of the contract.
- 5. The bidder has had no collusion with other contractors, with any of the men of Pondicherry University, Puducherry, or with any other person in preparation of the bid.
- 6. The bidder has not been influenced by any statement or promise of the Officials of Pondicherry University, Puducherry, but only by the bid documents.
- 7. The bidder is financially solvent.
- 8. The bidder is experienced and competent to perform the contract to the satisfaction of the Co ordinator, Central Instrumentation Facility, Pondicherry University, Puducherry.
- 9. The statements submitted with the bid are true.
- 10. The contractor is familiar with all general and special laws, acts, ordinances, rules and regulations of the Municipal, District, State and Central Government that may affect the work, its performance or personnel employed therein.
- 11. All the terms & conditions of the Supply Order will bind the bidder once his quote is accepted and supply order issued.