



PONDICHERRY UNIVERSITY

(A Central University)

www.pondiuni.edu.in

Kalapet, R.V.Nagar

Puducherry-605 014

Tender Notice for Scientific & Laboratory Equipments

Pondicherry University invites sealed tenders under Two Bid system (Technical and Commercial) for purchase of Major and various Minor Equipments under DBT-IPLS Project.

The complete details regarding Specifications, Technical details, Eligibility, Tender Document Fee, EMD, address and Method for submission of Bid Documents, etc are available on the **University website: www.pondiuni.edu.in**.

The last date and time for submission of tenders is 3rd April 2013.

REGISTRAR

Tender Document
PONDICHERRY UNIVERSITY
(A Central University)
(R.V.NAGAR, KALAPET, PUDUCHERRY – 605 014)

SCHEDULE OF TERMS & CONDITIONS

PU/DBT/IPLS/Equipts. Advt/2012-13/

Date: 13.03.2013

Sub: Supply of Major and Minor Scientific Equipments under DBT-IPLS Grant - Reg.

Schedule of Requirements

Sealed tenders are invited under two bid systems for supply of Major and Minor Scientific Equipments under DBT-IPLS (Interdisciplinary Program in Life Science) Grant to

Co-ordinator, Interdisciplinary Program in Life Sciences, Pondicherry University. The last date for the submission of tender is 3rd April 2013, 03.00 PM .The technical details and specifications given below:

Specifications & Allied Technical Details

I. Major Equipment (Imported)

Technical Specification for Fermentor (1No):

Code:PU-DBTB-MAET-01-032013

Sl. No.	SPECIFICATIONS
1	For microbial culture application in a single vessel
2	Autoclave able vessel with maximum working capacity : 5.0 L (water jacketed)
3	Autoclave able vessel with minimum working capacity: 0.5 L (water jacketed)
4	Heating system: Ex-situ sterilization of vessel.
5	CONTROLLER: Modular controller with online display of trend graph.
	TEMPERATURE :
6	Range of sensor: 4 -150 degree Celsius
7	Ex-situ sterilization
	AGITATION
8	Drive : AC Drive motor (220 V, 50 Hz)
9	Range of impeller :50-1000rpm

10	Impellers : six blade stirrer ,baffle cage for microbial application
	AERATION:
11	Air flow :standard rotameter 1.0-3.0 l/min) ,pressure control value, aeration filter ceramic/non ceramic
12	Air pressure: ~ 1 bar under standard conditions
13	Ventilation: exhaust air filter (ceramics/non-ceramics) in housing (s) with pressure holding valve.
14	pH range: Range 0-14
15	Probe :Ex-situ sterilization gel filled probe
16	In built peristaltic pumps (Four) with flow rate control (for chemostat, pH stat etc purpose)
	DISSOLVED OXYGEN
17	Range :0-100%
18	Gas mass transfer both through airflow and cascade module
19	Easy to install with ON/OFF control.
20	Software package for data acquisition (rate of data acquisition less than ~ 5 m) (Unlimited copy)
21	Warranty (3years)
22	Air compressor oil free
23	Gas Analyzer (Carbon -di- oxide)
24	Chiller
25	Rate contract for consumables probes/filters: <ol style="list-style-type: none"> 1. pH probe (spare probes for start up:2) 2. DO probe (spare probes for start up:2) 3. Filters (Spare set: 2)
26	Computer for data acquisition
27	UPS Power back up for Fermentor and computer acquiring data: 3 h

Note: Models with Control Units capable of acquiring data at smaller time intervals will be preferred. Sartorius, New Brunswick and Bioengineering make Fermentor will be preferred. However vendors with other make will be considered if they are able to demonstrate the capabilities of their Fermentor at our premises at their cost. The demonstration would involve observation of *E. Coli* growth in batch and continuous mode with online parameters like DO, CO₂ evolution and pH at 37 °C at intervals of 5 min at least.

Technical Specifications for High Tech Plant Cell Culture Facility
Code: PU-DBTB-MAET-02-032013

(Total Layout Area: 54 ft x 104 ft)

1. Environmentally controlled containment designed as per BL2-P Standards for growing plant cells and plants derived from them.
2. Two Controlled Temperature Plant Cell Culture Rooms - one of 25ft (l) x 25ft (b) x 12ft (ht) and the other of 25ft x 10ft x 12ft area for growing plant cells and tissues with a temperature inside in the range of $22^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and $28^{\circ}\text{C} \pm 2^{\circ}\text{C}$ maintained throughout the year. These rooms should have electrical fitting for 5 to 6 plant cell culture trolley of Height 7'1", width 4'2", Length 18". These containment areas should have provisions to have standby arrangements for temperature control.
3. Microprocessor photosynthesis monitor panel (Temperature $\pm 1^{\circ}\text{C}$, Humidity $\pm 4\%$, Photoperiod control ± 1 sec/day, individual indicators for each operation,
4. PAR illumination 100 -800 $\mu\text{moles} / \text{m}^2 / \text{s}$ additive only and as per DIN and IEC standard using High Flex LED Lighting system and HPS/HQI Lamps. (Technical details must be provided).
5. Proper automatic arrangement for discharging hot zone gradients
6. A 20ft x 10ft x 12 ft Autoclave room cum washing area with provision for glass dryer and a rack for keeping washed glass wares
7. A 20 ft x 10ft x 12ft Media Preparation room with provision for installing Water Purification System and weighing balance, refrigerator, microwave and chemical racks
8. An inoculation room of 20ft x 15ft x 12ft dimension with provisions for keeping two laminar airflows, a trinocular stereozoom microscope and an environmental Shaker .
9. Containment Area with Evaporative Cooling System (ECS) Green House of 35 ft x 25 ft x 11ft (c) x 8ft (s) built with reinforced, rigid frame work to withstand heavy storms and gale for maintaining heat sensitive medicinal plants
10. RH up to 90% using Automiser.
11. Structure mainly of Galvanised or equal square pipes of 47x47mm size.
12. Door of size 6ft x 3 ft made up of Anodised aluminium with proper locking system.
13. Roof screen -70:30 color green/black rollable and provision for fixing the net, provision for short day.
14. High tech temperature and RH control for maintaining stable temperature and Relative Humidity in containment area. (Technical details must be provided)
15. Reverse Osmosis water treatment plant for Humidification.
16. A net house of 35 ft x 30 ft x 11ft (height at centre) x 8ft (at two sides)
17. All Electrical wiring ISI and FR grade.
18. Sufficient lighting inside the pre entry room with Air Breath exchanger.
19. Flooring with anti slippery hard material in air-conditioned containment area and 2' moving concrete path all along the ECS containment Green House area with natural floor.
20. Foundation 2' above and 2' below with curtain wall.
21. All the control panels etc should be placed in the Pre entry room.
22. Prefabricated GI benching arrangements 150 sq ft (Arrangements should be done in such a way so that it can be dismantled later)
23. Top and all sides should be covered with 10mm both side UV stabilized Five Layer multi wall Lexan make Polycarbonate sheet duly fixed using Anodised profiles , neoprene rubber gaskets for proper jointing and sealing arrangement to avoid any thermal leakage.
24. Availability of wash basins at four required points be ensured
25. Accessories: Items with the following specification be manufactured and installed.

Plant Cell Culture Growth Racks (Qty.6nos) Height 7'1", width 4'2", Length 18", Shelves 6, Lighting facility in 5 shelves. Shelf to shelf distance 16". Shelf 50" x 18", 3mm Thick Glass/Hylem in each shelf. 3 Nos. Photosynthetically Active Radiation (PAR) Lights in One Shelf Three tube-lights 40-watt fluorescent cripton filled in one shelf with individual ON/OFF switch - Four Shelves. 15 solid state ballasts .3 Photo simulator (Code V-023046) to drive PAR lights and (Code V-023045) to drive Fluorescent lamps specially tested and approved by ERTL for use upto125 - 325V. FRAME 2.5 X 2.5 CM C.R.C. SQ. PIPE Castor –4. Trolley can be connected directly to photoperiodic Timer output. Input-200-240 V AC, 50 Hz, Single phase.

Horizontal Laminar Air Flow (Qty. 2 nos). Size:- 8' x 2' x 2', Table top made of stainless Steel Size 8' x 2', Front Transparent Acrylic door 5mm, Side panel made of thick transparent plexiglass duly framed and with UV 1 Nos of 1.6" size and 2nos 1 x 20 w Fluorescent Tube. Static Pressure manometer for calibrated to assess static pressure in HEPA Filters. HEPA Filter Size 4' x 2' x 6" 2nos., Suction End: Washable pre filter and 90 % efficient to 5 micron or less micron 2 Nos. Delivery End: HEPA Filter are 99.99% efficient down to 0.2 to 0.3 micron , micro glass fibre with corrugated aluminum foil separator and mounted in anodized aluminum frame(FRONT SIDE). Heavy Duty castor wheel, Regulator for Blower units (Speed low and High) with ¼ H.P, 1440 RPM, Velocity 90ft/min ±20 %. Electric motor with entire blower assembly mounted on frame and ensure noiseless and vibration free working. Cock for gas / Vaccum (metallic).

Millipore vacuum pump: Millipore make Vacuum Pressure pump Kit inclusive of Vacuum pressure pump, 1 Lit. Filtration flask, Silicone Stopper, Silicone tubing, Millex-FG50 and glass tube. Complete kit.

Controlled Environment Lab-Shaker: Maintenance free operation with precise shaking speed control; Tray size: 420 x 420mm to accommodate 81 (25 mL) or 50 (50 mL) or 39 (100 mL) or 18 (250 mL), 12 (500ml) or 9 (1L) flasks; Loading capacity up to 25kg Interface, standard CAN-Bus; Interface, optional USB, Ethernet, digital, analogue; Ambient temperature 0°C up to 60°C; Low energy consumption with maximum 65W; Low Weight ca. 58kg, digital setting with increment of 1 rpm; Accuracy: absolute ± 0.1 rpm; Timer: 1s to 999h; With adjustable Acceleration control, Active brake and Stop on position; Shaking motion and Speed: orbital, Ø 25.0mm and 20...400 rpm; Mains connection: 220 - 240 V / 50-60 Hz.

II Minor Equipments:

Technical Specification for Autoclave (100 L): 1 No

Code: PU-DBTB-MIET- 01-032013

Vertical (100 liters)

220-240V AC 50Hz Single Phase construction providing 25psi of pressure at 121°C.

Overpressure auto-discharging at 0.20-0.22Mpa

Stainless steel (Grade SS 304) construction and should have facilities for automatic purging and easy cleaning.

Buzzer alarm for cycle of operation.

Fitted with energy efficient heater, low water level cut off alarm.

Stainless steel wire mesh carriers.

Test report and calibration certificate to conform to national standards.

Technical Specification for Vertical Autoclave (180L) 1 No: Automatic

Code: PU-DBTB-MIET-02-032013

Vertical (180 liters)

220-240V AC, 50Hz, Single Phase construction providing 25psi of pressure at 121°C.

Stainless steel (Grade SS 304) construction.

Overpressure auto-discharging at 0.20-0.22Mpa

Buzzer alarm for a cycle of operation.

Microprocessor based temperature controller, Programmable time and temperature, temperature control accuracy of $\pm 0.5^{\circ}\text{C}$

Low water level alarm and cut off with end of cycle buzzer and auto reset.

Stainless steel wire mesh carriers

Miniature Circuit Breaker for on/off plus safety.

Energy efficient heater with solenoid valve for automatic purging and exhaust and drain valve facility for easy cleaning

Test report and calibration certificate to conform to national standards

Technical Specification for Microbiological Incubator (1 No): **Code: PU-DBTB-MIET- 03-032013**

Chamber volume: 400L

Gravity Convection technology

Microprocessor controller with vacuum fluorescent display

Temperature range: ambient +5° to 75°C, uniform and stable

Shelves: 2 to 4

Electrical requirement: 220-240V; 50Hz

Technical Specification for Double beam UV-VIS Spectrophotometer (1No):

Code: PU-DBTB-MIET- 04-032013

Wavelength range –atleast 200 to 900 nm, Wavelength setting 0.1nm increments. Wavelength accuracy \pm 0.1 nm at D2 peak and \pm 0.3 nm for entire range. Wavelength repeatability \pm 0.1 nm, Wavelength scanning speed 3,000 to 2 nm/min; Stray light & noise level should be minimal, Photometric system Double beam optics. Power requirements -AC 220-240V, 50 Hz. Detector -Silicon photodiode, output device- PC compatible. Computer +Printer +UPS of 30 min backup +other indigenous accessories spares should be quoted separately.

Technical Specification for Ice Flaking Machine (1No):

Code: PU-DBTB-MIET-05-032013

Production Capacity 50Kg/day or more

Bin Storage Capacity 20 Kg or more

Ice Flake Thickness Snow

Refrigerant CFC Free

Compatible stabilizer

Corrosion resistant Stainless steel cabinet

Automated low water detection system and automatic function

Provided with castor wheels for easy movement

Temperature -5°C to 10°C

Air cooled

Insulation- Polyurethane Foam

Low noise level

Electrical requirements 220-240V/50Hz.

Technical Specification for Inverted Phase contrast Microscope (1No):

Code: PU-DBTB-MIET- 06-032013

Bright field and Phase contrast

High luminescent LED illuminator with adjustable intensity for bright field and phase contrast

Built-in/ external computer and imaging software

Extra Long Working Distance Condenser with phase slider

Apodized phase contrast objective: 4-position: 4X, 10X, 20X and 40X

Mechanical stage: X-Y for positioning control

Built- in/External Camera: 3 to 5 pixel

Captured images: Color TIFF, PNG, JPG or BMP

Electrical requirement: 220-240V/50Hz

Technical specification for ELISA Reader (1 No):

Code: PU-DBTB-MIET- 07-032013

96 well UV-Visible absorbance microplate reader

Should be built with Path check facility and with integrated software system

Wavelength range: 190-850 nm,

Wavelength selection: Monochromator, tunable in 1.0nm increments,

Wavelength bandwidth: 2nm

Wavelength accuracy: $< \pm 2.0\text{nm}$

Wavelength repeatability: $\pm 0.2\text{nm}$

Photometric range: 0 to 4.0 OD,

Photometric Resolution: 0.001 OD

Stray light should be minimal

Light Source: Xenon Flash lamp

Temp Control: 4 °C above ambient to 45 °C

Temp Uniformity: ± 0.5 °C at 37 °C well-to-well

Temp stabilization time: 30 minutes max upon initiation.

Operating at 220-240V AC, 50 Hz

Technical specification for Fluorometer (1No):

Code: PU-DBTB-MIET- 08-032013

Plate format: Variety of sample formats from 6 to 384 well microplate in endpoint, kinetic, spectral scan, and well scans modes

Wavelength Range - Excitation: 250-850 nm, Emission: 360-850 nm

Wavelength Selection: Monochromator, tunable 1.0 nm increments

Wavelength Accuracy: $< \pm 2.0$ nm

Top and bottom reading

Light Source: Xenon flash lamp

Detection mode: Luminescence, low noise, high sensitivity PMT in single photon counting mode

Sensitivity ≤ 1.5 amol ATP

Injection unit –up to 3 injectors variable volume: 10-100 μ l, JET Injection technology

Low cross talk

Temperature Range: Ambient + 4 °C up to 45 °C

User-programmable Auto mix feature for thorough mixing of samples in microplate wells

PC compatible Data analysis software

Optional - PC with processor i3 and above

Power source: 220-240 V AC, 50 Hz

Technical Specification for Biosafety cabinet (2Nos):

Code: PU-DBTB-MIET- 09-032013

Class II

External Size (mm): 1100×850×2200 (apprx.), Internal Size (mm): 970×600×660(apprx.) – to match equivalent to internal volume 350 Litres

HEPA-filtered unidirectional (laminar) flow (ISO 5/Class 100) with removable screen for cleaning purpose

Dual blower motor (Independent motors for both inflow and down flow).

Control System: Microprocessor

Front Panel: Multi-layer doubling with toughened glass and sealing gasket -openable

UV light for Sterilization and fluorescent light above work space

Noise: <65dB

Electrical requirements: 220-240V (50Hz)

Stainless steel (Grade 304) for inner working space and for instrument stand

Ergonomic design.

Technical Specification for Semi Automated Clinical Chemistry Analyzer (1 No)

Code: PU-DBTB-MIET- 10-032013

Principle:

Absorption spectrophotometry.

Method of analysis

Absorbance, kinetic, fixed time, endpoint, bichromatic, differential mode, double wave length end point with sample blank, standard or K factor etc...

Light source

12 V/20 W halogen lamp

Stray light $\leq 1\%$

Light path 1cm

Band width: 8nm (± 2 nm)

Reading error: $\pm 2\%$ at 1.5 A, $\pm 3\%$ at 1.51A to 2.5A

Type of filter

Interference filter

Wavelength

Standard filters (7 Nos 340 nm, 405 nm, 505 nm, 546nm, 578nm, 630nm, 670nm), with maximum accuracy. Two free positions for additional filters.

Photometric range

0 to 2.5 OD

Accuracy: 0.006 A, From 0.0 to 1.5 A

Drift 0.003/ hr

Resolution: 0.001

Optical measurement: Silicon photo diode

Flow cell/ Cuvettes:

It should support flow cell and cuvettes

Flow cell volume: 30 μ l

Aspiration volume: 400-3000 μ l

Aspiration mode: peristaltic pump (Automatic)

Reagent volume – 200-500 μ l

Cuvette volume: 500 μ l

Air Purge volume: Programmable from 30 μ l to 150 μ l

Temperature control

Peltier element regulated [25-37⁰C], Accuracy $\pm 0.1^{\circ}$ C.

Display and user settings

Graphical display (LCD/LED), computer interface (RS-232 serial port) with mouse and key board,

Memory and Thermal printer settings (inbuilt).

Power requirement

Voltage: 220-240V AC

Frequency: 50HZ

Maximum Power : <80W

Support: UPS

Additional requirements:

Variable µl pipettes no: 4

Free reagent kits of 1 set of all biological parameters (Serum, urine etc...)

Optional - Lamp 6V/10W Quartz halogen

Technical specification for Water Purification System(1No) Code: PU-DBTB-MIET-11-032013

Bio Analytical grade Type I water from potable tap water. Usage of water for HPLC, Spectral analysis and Cell Culture work. The system should be auto cutoff type and ready for 24X7 online. System should have automatic and manual cleaning/rinsing options. System should have Electro deionization module to remove organic and mineral impurities and reduce TOC levels. System should have Germicidal UV treatment module to reduce CFU \leq 1 per ml. The product quality water should be as defined by USP.

Out Put Capacity of the system:

5ltr/hr Type II water

Minimum 1ltr/min Type I water

Resistivity

10-15 Megaohm/cm Type II Water

18.2 Megaohm/cm Type I water

Conductivity:

0.067-0.20 mS/cm Type II water

0.03- 0.06 mS/cm Type I water

TOC

<30 ppb Type II water

<10ppb Type I water

Silica rejection 99.7-99.9%

RNase : Free

DNase: Free

Along with the system Water Storage Tank (25- 35 ltr) should be supplied and it should have water level sensor.

Consumables & Accessories to cover the warranty period

Technical Specification for Western Blotting Unit with Semi Dryer (1No):

Code: PU-DBTB-MIET- 12-032013

1. Blotting Unit

Specifications:

Approximate Gel Size (WxL): 10x8 cm

Buffer Requirement: 450ml

Gel Capacity: minimum 2 Gels

Electrical Requirements: 220-240V (50Hz)

Power Pack: Voltage 10-500V

Current 0.01-2.5A

Power: 1-500W

2. Semi Dryer:

Specifications:

Maximum Gel Size: 24x 16

Agarose gel support frame

Buffer Requirement: 150-200ml

Gel Capacity: 4 Mini Gels

Transfer time: 15-45 min

Electrodes - Platinum/Titanium

Electrical Requirements: 220-240V (50Hz)

Power Pack: Voltage 10-500V

Current 0.01-2.5A

Power: 1-500W

3. Microfiltration Apparatus

Sample format Minimum 48 wells

Well size 3-7 mm diameter
Sample volume Minimum 50µl
Membrane size (W x L) 12x10 cm

Microfiltration units should provide binding of proteins and nucleic acids in solution onto membranes. Incubation, wash, and detection steps to be performed without removing the membrane from the unit. Units should be autoclavable.

Technical Specification for Freezer -20°C (320 L) : 1 No

Code: PU-DBTB-MIET- 13-032013

Vertical -20°C with auto defrost.

Twist Ice maker

Refrigerant - CFC Free

Insulation - Standard Polyurethane/Extended polystyrene/any others

Powerful compressors with efficient energy saving features

Noise level - Low

Adjustable shelves: 3-4

Solid lockable door

Spring-loaded, self closing doors with 90° stay-open feature

Bright, digital temperature display

Microprocessor control system with audio and visual alarms working at 220-240V, 50 Hz

Supply with Freezer sample racks for sample storage.

TERMS AND CONDITIONS

I. General Information: -

1. Last and time of receipt of the Tenders: 03.04.2013, 3.00 PM
2. Date & Time of opening of Tender: 04.04.2013, 2.30 PM
3. Tender Document fee and EMD rates: -

S. No.	Name of the Equipment	Qty	Tender fee	E.M.D
1.	Fermentor	1No	Rs.500/-	2.5% of total value of the equipment
2.	Plant Cell Culture facility	1No	Rs.500/-	2.5% of total value of the equipment
3.	Autoclave (100 L)	1No	Rs.500/-	2.5% of total value of the equipment
4.	Autoclave (180 L)	1No	Rs.500/-	2.5% of total value of the equipment
5.	Microbiological Incubator	1No	Rs.500/-	2.5% of total value of the equipment
6.	UV-Spectrophotometer	1No	Rs.500/-	2.5% of total value of the equipment
7.	Ice Flaking Machine	1No	Rs.500/-	2.5% of total value of the equipment
8.	Inverted Phase contrast Microscope	1No	Rs.500/-	2.5% of total value of the equipment
9.	ELISA reader	1No	Rs.500/-	2.5% of total value of the equipment
10.	Fluorometer	1No	Rs.500/-	2.5% of total value of the equipment
11.	Bio-safety Cabinet	2Nos	Rs.500/-	2.5% of total value of the equipment
12.	Semi-Automated clinical chemistry analyzer	1No	Rs.500/-	2.5% of total value of the equipment
13.	Water Purification System	1No	Rs.500/-	2.5% of total value of the equipment
14.	Western Blotting unit with semi dryer	1No	Rs.500/-	2.5% of total value of the equipment
15.	Freezer -20°C	1No	Rs.500/-	2.5% of total value of the equipment

4. **Two bid systems** have to be strictly followed. (One for Technical bid and another for commercial bid to be submitted in separate covers)

5. However, the tender document fee and EMD as specified above should be remitted by each firm / bidder, collectively for all their bids advertised under this tender.

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 bid 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 superscribing **Bank Demand Draft** and which should be enclosed with the technical bid.

8. The Photo Copies of the Bank Instruments on payment of EMD should be attached with each bidding covers.

9. The tender / quotation must be submitted along with the stipulated tender document fee and EMD in the sealed cover, super-scribing the name of the Department / Centre for whose Equipments the tender is quoted for.

10. 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.

11. The tenders should be addressed to the Registrar, Pondicherry University.

The examples for super-scribing the envelopes of the different categories of tenders are given below: -

For Major & Minor Scientific Equipments: -

Tender submitted under two bid system for the DBT-IPLS (Interdisciplinary Program in Life Science) Project.

Name of the Equipment: _____

To

The Registrar,
Pondicherry University,
R.V. Nagar, Kalapet,
Puducherry – 605 014.

From
Supplier's Address

In case of local delivery, all tenders are to be dropped in the tender box placed at the Information Facilitation Counter, Bharat Ratna Dr.B.R.Ambedkar Administrative Block, Pondicherry University, R.V. Nagar, Kalapet, Puducherry – 605 014.

The tenders sent through fax / e-mail will not be accepted.

II. Common Conditions

1. Purchase of Tender Document:

The Tender document can be either downloaded from the University website **www.pondiuni.edu.in** or procured from the Information Facilitation Counter, Dr.Ambedkar Administrative Block, Pondicherry University on payment of fee as specified above, by means of a D.D, drawn in favour of the Finance Officer, Pondicherry University, payable at Puducherry. The downloaded application should be accompanied with the tender document fee, in the form of a Demand Draft.

Separate bids should be submitted.

2. Price Schedule

The bidder may either quote for the entire equipments or individual items required for the DBT-IPLS (Interdisciplinary program in Life Science) Project. 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 (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 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.

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.

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

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 **at least 36 months from the date of putting the system into operation** at the Pondicherry University, or at least 42 months from the date of receipt of the last lot of the consignment in India.

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 120 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 five 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 a minimum period of two weeks from the date of installation with an expert team.

27. For any clarification with respect to technical specifications, please contact the respective Department Heads as per the details given below: -

S.No	Name of the Project	Name of the Head	Contact No
1	DBT-IPLS Project	Prof K.Srikumar Co-ordinator	0413-2654422

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 favour 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.

c) Cost of consumables which are required for the equipment for initial operation upto a 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: 14.03.2013

REGISTRAR

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 _____ 200_ by _____ Bank having its Registered Office at _____ and one of its branches at _____ (hereinafter referred to as “the Guarantor” which expression shall, unless it be repugnant to the subject, meaning or context thereof, be deemed to mean and include its successors and assigns) in favour of the Pondicherry University, Puducherry 605 014 represented by its Registrar, having his office at R. Venkataraman Nagar, Kalapet hereinafter referred to as the “University” which expression shall include his successors in office for an amount not exceeding Rs. _____ (Rupees _____ only) at the request of M/s. _____ (more fully described hereunder)

2. Whereas the University has placed Work Order No: PU/ _____ dated _____ for _____ with _____ M/s. _____ having its office at _____ and hereinafter referred to as the “Contractor” which expression shall include their successors and assigns.

3. And whereas the Contractor has accepted and agreed to execute the work as per the work order as per undertaking / agreement dated _____ within the time stipulated and in the manner specified therein.

4. And whereas the University has called upon the Contractor 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 work to be executed, and the quantum of amount therefore payable by the Contractor 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 notwithstanding 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.

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

14. Notwithstanding anything contained herein:

Our liability under this guarantee shall be limited to Rs. _____ (Rupees _____ only)

This guarantee shall be valid upto _____ and for such further period as determined by the University for fulfillment of the contract.

We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before _____ or such extended period / date.

In witness whereof, this Guarantee has been executed by _____ for an on behalf of the Bank (Guarantor) on the day, month and year first above written.

SIGNATURE AND SEAL

NAME OF THE BANK (GUARANTOR)

ADDRESS:

ANNEXURE - II
BIDDER'S WARRANTY

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

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/DBT/IPLS/2012-13/ dated 08.03.2013.

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 Coordinator, 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.

Signature of the Bidder