

**INVITATION FOR QUOTATION**

**HSCC/PUR/AIIA/ Quot/01**

**Dated: 06/07/2017**

**To**

**All Bidders**

**Subject:** Invitation for Quotations for supply of Low Value Items for Blood Bank for All India Institute of Ayurveda (AIIA), under Ministry of Ayush, Government of India, Gautampuri, Sarita Vihar, New Delhi

Dear Sirs,

1. HSCC (India) Ltd. for and on behalf of Director, All India Institute of Ayurveda (AIIA), under Ministry of Ayush, Government of India, Gautampuri, Sarita Vihar, New Delhi invites your most competitive quotation for the following goods of the respective departments quantity mentioned the **section I** and technical specification mentioned in the **section II**.
2. Quotation:
  - 2.1 The contract shall be for the full quantity as described above.
  - 2.2 Corrections, if any, shall be made by crossing out, initialling, dating and rewriting.
  - 2.3 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
  - 2.4 The unit price/ rate of the item should be clearly indicated in the quotation. Rates/Prices quoted shall be including of forwarding, and insurance & transportation, warranty, but **excluding GST** up to the consignee AIIA –Sarita Vihar New Delhi
3. Each bidder shall submit only one quotation as per **section III**
4. Evaluation of Quotations:

The Purchaser shall evaluate and compare the quotations determined to be substantially responsive i.e. which;

  - 4.1 are properly signed; and
  - 4.2 confirm to the terms and conditions, and specifications.
  - 4.3 final considerations of equipments shall be based on the quality of equipments during demonstration / inspection.
  - 4.4 The quotation will be evaluated and compared separately for each item.
5. The Quotations would be evaluated item wise.
6. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest rate for the item subject to quality of the items during demonstration / inspection.

  - 6.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and cancel the bidding process and reject all quotations at any time prior to the issue of Purchase Order/contract, without assigning any reason.
  - 6.2 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the “List of Requirements” (rounded of to next whole number) without any change in the unit price and other terms & conditions quoted by the tenderer.
7. Delivery period shall be within **07 days** from date of placement of order.
8. Payment shall be made only in Indian Rupees as follows:

**Satisfactory Acceptance and delivery - 100% of total cost**

100% Payment on submission of following documents (Duly signed & stamped at your end):-

Copy of Purchase order.  
Consignee receipt in original issued by AIIA/HSCC  
Invoice in favour of consignee/Director, AIIA through HSCC (I) Ltd  
Warranty Certificate in original.

9. All supplied items shall be under **two years warranty** from the date of successful acceptance by AIIA.
10. You are requested to provide your offer as follows:

Sr. No.	DESCRIPTION	No. of ITEMS	Closing date & time for submission	Date and time of Opening of Techno
A	Blood Bank items	19	26.07.2017 at 14:00 hrs	26.07.2017 at 14.30

**NOTE:** (Under any unforeseen circumstances if the due date for submission of Tender is declared as holiday then the tender shall be submitted & opened on the next working day at the scheduled time).

The quotations will be opened in HSCC office, NOIDA as mentioned above in the presence of bidders or their authorized agents as they may choose to attend

11. Information brochures/ Product catalogue, if any, must be accompanied with the quotation clearly indicating the model quoted for.
12. Sealed quotation to be submitted/ delivered at the address mentioned below:

**General Manager (Procurement)**  
**HSCC (India) Ltd.**  
**E- 6 (A), Sector -1.NOIDA -201 301.**

**THE COVER SHOULD BE SUPERSCRIBED WITH THE FOLLOWING:**

Reference to letter of enquiry.

Due date of opening.

Serial No of the Items.

13. Quoted amount should be in Indian Rupees only and as per **section -III** price schedule.
14. For all items, the Technical Evaluation Committee may opt for Demonstration of the items. The Committee may also ask for Demonstration / Inspection before supply / delivery of the items for quality assurance.

**Note:** Please indicate the quotation reference no. (given at the top of page 1 of this letter) and Serial No of the Items on the top of the envelope.

The details of various medical equipments shall be also made available at [www.hsccltd.co.in](http://www.hsccltd.co.in), and modification/amendments etc, if any, shall only be notified on website only.

We look forward to receiving your quotation and thank you for your interest in this project.

General Manager (Procurement)

**Section -I**

**LIST OF ITEMS & QUANTITIES**

<b>Sr. No</b>	<b>Name of Equipment</b>	<b>Qty</b>	<b>Warranty from date of acceptance</b>
1	Serological Water Bath	2	2 years
2	Plasma Thawer (Water Based)	1	
3	Plasma Thawer (Non Aqueous Based)	1	
4	Refrigerator Cryoprecipitate water bath/Refrigerator water bath	1	
5	VDRL shaker (Rotator)	1	
6	Laminar Airflow Bench (Bio Safety Cabinet)	1	
7	Coagulation Analyzer (Semi)	1	
8	Digital Analytical Balance	2	
9	Hand held (Portable) Tube Sealer	1	
10	Manual Plasma Expresser (Plasma Separator)	4	
11	Centrifuge for Microplates	1	
12	Sealer, Stripper and cutter for Blood Bag Tubing	2	
13	Digital PH meter	2	
14	Hot Air Oven	2	
15	Vertical Autoclave	2	
16	Domestic Refrigerator	2	
17	Hemoglobin estimation device ( point of care testing)	2	
18	Cryofuge bucket balance pan	2	
19	Portable Refrigerated blood transport box	1	

## **Section II**

### **Technical Specification of Equipments**

#### **Item No. 01**

#### **SEROLOGICAL WATER BATH**

1. Temperature Range: 20<sup>0</sup>C to 100<sup>0</sup> C
2. Temperature Stability: ±0.05<sup>0</sup>C
3. LCD display of set/actual and over temperature safety values.
4. Electronic sensing of low liquid levels with no sticky float valves.
5. Bath Volume: 15 to 20 liters.
6. Bath dimension: 30cm x 30cm x 15cm
7. Power cut off on low liquid levels and over temperature conditions with audio-visual alarms.
8. Should be compatible with centralized temperature monitoring device.

#### **Item No. 02**

#### **Plasma Thawer (water based)**

- For uniform thawing of plasma bags at preset temperature of 37 °C.
- Capacity 10-15 bags per run or per one cycle.
- System to prevent contamination of individual ports during thawing.
- Outer and inner chamber made of Stainless steel with a cover for preventing contamination.
- Should be water based system
- Continuous water circulation to facilitate optimum and uniform thawing of plasma.
- Individual compartments for holding of plasma bags.
- Input power supply: 230 ±10% V, 50 Hz.
- Audio-visual alarm system for temperature deviations and cycle over
- Temp controller: Microprocessor based digital controller.
- Outlet drainage facility for water change to be present
- Certification: **CE certified**;

#### **Item No. 03**

#### **Plasma Thawer (Non-aqueous technology)**

1	Should be electronically regulated dry system for thawing of FFP, Cryoprecipitate, whole blood and Packed Red Blood cells.
2	The heat transfer should be through heat transferring fluid.
3	The plasma bag should never come in direct contact with the heat transferring fluid./water to ensure contamination free operation.
4	The device requiring the impression of the bag in fluid (with or without plastic cover) is not required.
5	Should have pre set program for thawing of FFP/Cryoprecipitate/red blood cells.
6	Should have sensors for leakage detection in case contents of bag is getting leaked during the thawing process.
7	Should have LCD display with audio visual alarm system with the display of temperature,

	menu system, information of running program with countdown timer
8	Should ensure uniformity of temperature distribution throughout the thawing procedure.
9	Should have corrosion free material with rounded interiors, preferably plastic to ensure easy cleaning process.
10	Should have transparent cover to ensure that the bags are visible during the heating thawing process.
11	There should be a filler opening to fill the device with heat transfer fluid to be changed as per requirement.
14	It should be maintenance free, the thawing fluid will be changed by the firm as and when required during the warranty/CMC period.
15	<b>CE certified.</b>

#### Item No. 04

### Refrigerated water bath (Cryobath)

- 1: Uniform thawing of plasma bags at preset temperature of 4 °C.
- 2: Continuous water circulation to facilitate optimum and uniform thawing of plasma.
- 3: Capacity 10-15 bags per run or per one cycle.
- 4: System to prevent contamination of individual ports during thawing.
5. Microprocessor based controller for precise monitoring and controlling of temperature at 4 °C.

6. Other requirements:

- Input power supply: 230 ±10% V, 50 Hz.
- Audio-visual alarm system for temperature deviations and cycle over
- Temp controller: Microprocessor based digital controller.
- Stainless steel tank with cover for preventing contamination.
- Time taken for one Process: Not more than two hours for plasma bags store at -40 ° C.
- individual compartments for holding of plasma bags.
- Outlet drainage facility for water change to be present

7. Certification: **CE certified**

8. Quality Certification: ISO 13845 certified

Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I) IEC-60601-1-2: 2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility

#### Item No. 05 VDRL shaker/rotator

1. Used for rotating slides for VDRL testing
2. Digital display of time.
3. Rotation of 180 RPM adjustable with regulator, 0-30 minutes for control of shaking duration.
4. Power supply 220 volts, 50 cycles, single phase with complete in all respects.
5. Should comply all standard safety features.

#### Item No. 06

### Laminar Air Flow Bench (Bio Safety Cabinet)

1. Microprocessor controlled class-II (type-A) Biological safety cabinet suitable for working with precious clinical samples liable to be contaminated with microorganisms assigned to biological safety level 1 to 3 while processing , providing full protection to personnel, specimens and laboratory environment.
2. Should conform to NSF international standards 49 (1992).
3. HEPA/ULPA filters on inflow as well as exhaust with an efficacy of 99.999% for equal or more than 0.3u size particles (DOP test certificate to be produced).
4. 30% exhaust air via high performance exhaust filter and 70% air should be recirculated.
5. Dimension of work chamber in the range of 1100-1300mm (length) 500-700mm (width) and 550-750mm (Height).
6. Main body made up of rust proof stainless steel.
7. Safe and ergonomic design for movement in all directions in the chamber (comfort for users while working).
8. Sliding front window, electrically operated, made up of safety (UV) glass, completely tight sealed while closed for complete protection against contamination and fumigation. Provision for manual operation of sliding front window should also be present.
9. Independent fan for impulsion and exhaust.
10. Work table should be fitted with white lamp for local illumination, self operating UV germicidal light (15 W) on window opening, static pressure manometer and exhaust system.
11. The unit should be fitted with pre filters and HEPA filters.
12. **Display of the following parameters:**
  - A. **Optical and acoustic notification of alarms:**
    - i. Low exhaust flow.
    - ii. Low down flow air velocity
    - iii. Impulsion and exhaust fan malfunction
  - B. **Cabinet Information (with digital display)**
    - i. Exhaust air flow in m<sup>3</sup>/hr.
    - ii. Laminar flow air velocity in m/sec.
    - iii. Cabinet temperature in degree Celsius.
    - iv. Elapsed hour meter for UV.
    - v. HEPA filter last changed dated.
13. Stainless steel pan under working surface to allow safe collection of spilled fluid.
14. Low noise level <65dBA.
15. Service port with stopcock at both ends of gas.
16. Minimum of one electronic socket inside the chamber.
17. Working aperture 200mm.
18. Cabinet should be mounted on compatible wheel trolley/stand.
19. Power supply of 220v, 50Hz.
20. **Essential accessories:**
  - i. One inflow HEPA/ULPA filter and one exhaust HEPA/ULPA filter (original and compatible to the cabinet, DOP tested) should be supplied in addition by the firm with cabinet as spare accessories.
  - ii. Should provide one UPS of required KVA to carry out work uninterrupted for 30 minutes.
21. Other terms:
  - i. Installation should be on turnkey basis.
  - ii. The price of HEPA/ULPA filters should also quote separately.

22. Compatible stabilizer with same warranty as far the main equipment
23. **US FDA / European CE certified**

### **Item No. 07**

#### **Coagulation Analyzer**

1. Semi Automated Coagulation Analyzer with build in printer.
2. With at least four measuring channels and at least 16 incubation blocks.
3. Applicable for all clotting assays i.e. PT, PTTK, FIBRINOGEN, TT and Factor assays.
4. Based on electro-magnetic change in viscosity clot detection or change in OD mode.
5. Should have microprocessor based controlled systems.
6. Programmable for at least PT, PTTK, FIBRINOGEN, and Coagulation factors assays and should be able to generate standard curves for factor assays.
7. Liquid Crystal display of results.
8. Built in analyzer to give result in sec/INR/%age/mg/dl.
9. Automatic start or stop with minimum lowest readout within 10 seconds.
10. Cable connected and calibrated pipette with variable volume.
11. Should be an open system.
12. Should work on 240 $\pm$ 20 volts.
13. UPS for half an hour backup supply.
14. All essential consumables must be mentioned and quoted as rate per test and rate may be frozen for next five years.
15. Consumables for at least 200 tests for fibrinogen and factor VIII assay should be quoted along with the equipment.
16. Should be **CE certified**.

### **Item No. 08**

#### **Digital Analytical Balance**

1. Capacity: 300 grams
2. Readability: 0.01 grams or milligrams
3. Linearity: Plus minus 0.002 grams
4. Reproducibility: Plus minus .001 gms
5. Stainless steel pan
6. The balance should be supplied with draft shield.
7. Power supply: 220 / 240 volts, 50 cycles, single phase.
8. The equipment should be capable of working at 0 to 40 degree Celsius and 15% and 95% of relative humidity.

### **Item No. 09**

#### **Hand Held Battery Operated Tube Sealer**

1	Should be portable, light weight (Hand unit and battery weight) less than 3kg, not bench top type.
2	Should be able to do at least minimum of 500 quality seals with one fully charged battery. The sealing time should not be more than 2 seconds. Tear seal feature to

	make segments that can be separated by hand.
3	Battery should have visual indication showing charge status of battery at any given time. Sealing trigger should be automatic (on sensing tube in the slot). No warm up time is required.
4	Should have visual indication on sealing handle as well as battery, when the sealing process is going on.
5	Should be able to do sealing of all types and sizes of tubes of upto 5mm outer diameter without causing Hemolysis.
6	Should have a sensing system, to adapt to the sealing time depending upon the thickness and quality of PVC tube.
7	Should have a carrying case for battery for ease of operations during outdoor collections
8	Sealing should be based on radiofrequency mode.
9	Charger should be compatible with Input voltage: 220-240V/ 50 Hz Single phase Ac
10	Battery should be rechargeable.
11	<b>CE certified</b>

#### Item No. 10

##### Manual Plasma Expresser

1	Should be suitable to extract blood components (Plasma and platelets) from all types of Blood Bags system available in the market.
2	Mode of operation: Manual.
3	Front panel should be spring loaded to exert uniform pressure on plastic blood bags for transfer of components.
4	Compression plate should be made of durable transparent acrylic material.
5	Metal used for equipment should be non-corrosive and can be cleaned with disinfectant.
6	Base and vertical portion of the equipment body should be powder coated and sturdy enough to hold the blood bags in vertical position.
7.	<b>CE certified</b>

#### Item: 11

##### **General Laboratory Centrifuge for Microplates**

- Features:** Bench centrifuge microprocessor control with timer speed control safety measures having automatic door inter-lock, imbalance detector and self-balancing drive. The braking system should have high and low, also off and coasting.
- Maximum rated speed:** 7000 plus minus 10RPM approx. with swing out rotor.
- Max.Force:** 6000 gms. Approx.
- Max. Rotor Capacity:** 4 x 250 ml.
- Adapter for every popular size like 5 ml to 50 ml should accommodate upto eight 96 well micro plates.
- Built in timer and speed regulator with suitable speed indication and lid lock system with digital display of speed and time.
- Power Supply:** 220 / 240 V., 50 cycles, single phase.
- A line voltage corrector of suitable rating should be supplied as part of configuration.



**Line Voltage Corrector:**

I.S.D. Certified copper wound single phase automatic line voltage corrector conforming to IS:9815/89 with latest amendment fitted with a voltmeter and switch to indicate output/input voltage as under:

- (a) **Capacity Rating (KVA):** As per the requirement of the equipment.
- (b) **Input Voltage:** 160 to 260, 50 cycles.
- (c) **Output Voltage:** 220 volts to 240 volts adjustable.
- (d) The equipment should be supplied with 2 meter chord at input and fitted with a plug of appropriate rating (15 A).

**Item No. 12**  
**Sealer, Stripper and Cutter for Blood bag tubing**

- 1. **Features:** For sealing and cutting the blood bag tubings.
- 2. Each sealer, stripper and cutter should be supplied with 50,000 (fifty thousand) aluminum clips.

**Item No. 13**  
**Digital PH meter**

Type	Digital electronic PH Meter with combination of PH electrodes.
PH Range	0.0 to 14.00 PH with 3 <sup>1/2</sup> digital display.
Millivolt range	0.0 to 1999 mv.
Accuracy, repeatability and resolution	0.01PH
Calibration solution should be provided.	
Temperature compensation and PH standardisation	0 <sup>0</sup> to 100 <sup>0</sup> C (Manual)/Automatic
Electrical power supply	220/240 volts, 50 cycles, single phase.
Ambient temperature	0 <sup>0</sup> to 40 <sup>0</sup> C. 40 <sup>0</sup> C at 95% RH.
Equipment shall have suitable, rechargeable battery with a battery charger and have <b>CE certified</b>	

**Item No. 14**  
**Hot Air Oven**

- 1. 2-4 shelves, dimensions - minimum 24"x 24" x24",
- 2. Single door
- 3. Double walled.
- 4. Outside made up of mild steel with paint.
- 5. Inside made up of Stainless Steel.

6. The double walled door with asbestos gasket lining is fitted on heavy brass cast , chromium plate hinges and has a chromium plated latch type lock.
7. Temperature controlled from 50°C to 250°C by electronic digital temperature indicator cum controller.
  - Should provide suitable UPS with battery back up.

### **Item No. 15**

#### **Vertical Autoclave**

Vertical Jacketed AUTOCLAVE

- **Description of Function**
  - Autoclaves are required for sterilizing an object in high temperature and high-pressure steam.
- **Operational Requirements**
  - Microprocessor based electrically heated vertical steam sterilizer
- **Technical Specifications**
  - Pressure range 5- 40psi, adjustable , temper proof and touch sensitive control panel
  - Pressure control switch with Digital display of Pressure, Temperature and time.
  - Outer and inner chamber made of thick stainless steel, argon welded, ground and polished
  - Inner chamber made of at least 18 SWG SS sheet with minimum chamber capacity of 100 liters.
  - Stainless steel Steam jacket insulated with high grade glass wool
  - Water level indicator
  - 
  - Joint less gasket
  - Water inlet and drain valves
  - With standard safety features
  - Additional accessories – (to be quoted separately in spare part): gaskets (2), stainless steel perforated drums (4), heating coils (2).

**Power Supply:** Power input to be 220-240VAC, 50H

### **Item No. 16**

#### **Domestic refrigerator:-**

1. Capacity (Litre): 250 -300 Lt or more
2. Refrigerant: Eco friendly Refrigerant
3. Rating: 5 star
4. With automatic stabilizer
5. Compressor warranty: 7 Years

**Item no. 17**  
**Hemoglobin estimation device**

1. At least dual wavelength device for Hb measurement of capillary, venous or arterial whole blood
2. Should have color LCD display
3. Should be Cuvette based, with operating range from 10-40° C
4. Measurement range : 0-25.5g/dl, 0-15.9mmol/L
5. Should be able to display results in less than 3 seconds
6. Weight of the device should be less than 1 kg, with batteries installed
7. Shelf life of Cuvettes shall be at least 2 years
8. Should be able to connect to printer
9. Should be factory calibrated against ICSH reference method
10. Blood based liquid controls should be available
11. Should comply IEC-60950-1

**Item no. 18**  
**Centrifuge bucket equalizer**

1. Microprocessor controlled device designed to equalize the counter facing buckets of centrifuge simultaneously
2. External body material : non corrosive and non magnetic
3. Optimum balancing with accuracy and precision
4. Accuracy :  $\pm 0.5$  gm/ $\pm 0.5$ ml
5. Deviations :  $\pm 0.01\%$
6. Conversion of weight to volume for all blood components
7. Independent tarring for both the pans
8. Audiovisual alarm on equalization and error reporting

**Item no 19**  
**Portable Refrigerated blood transport box**

1. Structure should be completely in underformable (UVA resistant) plastic material inside and outside.
2. Should operate on main/car battery and have a Battery back up of at least 4 -6 hrs
3. All the internal corner should be rounded to make any cleaning operation

**Section -III**

**Price Bid**

Sr no.	Description of Goods	Make	Model no.	Qty.	# Unit Price Rs.	Total Amount Rs.
				a	b	axb
1.						

Total Tender price in Rupees:

**In words:**

Note:

- 1 # Unit price shall be included of all packing & forwarding, freight charges from ware house to consignee AIIA –Sarita Vihar, two year warranty, but excluding Goods and Services tax (GST) and any other tax
2. Goods and Services tax (GST) will be paid extra as applicable and any other tax against documentary evidence.
3. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail

**Authorised Signatory**



