

INVITATION FOR QUOTATION**HSCC/PUR/KCGMC/Low Value/Medical College Items/2017/MC-Jun (8)****Dated: 28th June, 2017****To****All Bidders****Subject:** Invitation for Quotations for supply of Low Value Items for Biochemistry Department of Kalpana Chawla Medical College, Karnal, Haryana.

Dear Sirs,

1. HSCC (India) Ltd. for and on behalf of Director General, Medical Education & Research, Panchkula, Govt. of Haryana invites your most competitive quotation for the following goods of the respective Departments are details below:

Annexure - I (Including name of items, Specification and Quantity)

- (1) Department of Biochemistry.

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 tender. Rates /Prices quoted shall be Inclusive of all taxes, duties, forwarding, and insurance & transportation up to the destination, Kalpana Chawla Medical College - Karnal.

3. Each bidder shall submit only one quotation.

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.

5. The Quotations would be evaluated item wise.

6. Award of contract:

- 6.1 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.
- 6.2 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, without assigning any reason.

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 KCGMC/HSCC
 - Invoice in favour of consignee/Director, KCGMC, Karnal through HSCC (I) Ltd
 - Warranty Certificate in original.
9. All supplied items shall be under warranty of 12 months from the date of successful acceptance and date of delivery of items.
10. You are requested to provide your offer as follows:

Sr. No.	DESCRIPTION	ITEMS	Closing date & time for submission & receipt of tender	Date and time of Opening of Techno – Commercial Tenders
A	Equipments for Department of Biochemistry	18	07.07.2017 at 14:00	07.07.2017 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 tenderer or their authorised 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.
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.
15. Insurance shall be arranged/borne by supplier.

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 equipment shall be also made available at 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)

I. DEPARTMENT OF BIOCHEMISTRY

LIST OF LOW VALUE LABORATORY EQUIPMENTS IN BIOCHEMISTRY DEPARTMENT

1. Fume Cupboard (Bio Safety Cabinet Class II B2):

- 2 Nos.

- Biosafety cabinet of class II, Type B2 (Total Exhaust) with vertical laminar airflow
- complying to EN12469:2000 with microprocessor based monitoring system.
- Automatic control of all functions and all safety alarm systems with double centrifugal fan to provide complete operator, product and environmental protection. Suitable for handling pathogens namely *Mycobacterium paratuberculosis*.
- Internal dimension (WxDxH) should be approximately 850X 700X 550 mm or more
- The cabinet should be fitted with 1 automatic safety service connection for gas, 1 for vacuum and 1 electrical socket
- Dual, long life ULPA/HEPA (H-14 grade, according to EN1822) filters for supply and exhaust airflow. The cabinet should consist of ducting facility on the top of the cabinet for direct ducting to facility exhaust system.
- The Cabinet should be supplied with a UV sterilizing lamp
- Frameless, shatter-proof sash with automatic UV shut-off on sash opening
- Machine should have low noise level (below < 53 dB)
- The cabinet should have user friendly practical keyboard and display to inform
- laminar airflow and frontal air barrier velocity , residual lifetime of HEPA filter , UV lamp , total number of hours of operation, saturation level of HEPA filter, inside and outside Temperature
- Audio and visual alarms required for power failure, out of range or incorrect
- laminar airflow velocity and frontal air barrier velocity, end of life-cycle of UV lamp , fan-motor malfunction ,saturation of HEPA filters , un-correct position of front sash-window, blockage in the exhaust duct.
- Interior work area of a single piece of stainless steel and single piece HIGH GRADE stainless steel. Work surface should be consisted of sections easily removable for carrying out routine cleaning and/or require autoclaving sterilization procedures if so desired.
- Cabinet should be preferably coated with anti bacterial treatment/ solution to prevent microbial contamination.
- Cabinet should also be supplied with modular stand with castors.
- Air flow velocity should be at least 90 fpm; efficiency should be > 99.99% at 0.1 micron to 0.3 micron to provide 100% exhaust.
- Safety device: (i) Dual-wall construction surrounds the work zone with negative pressure plenums for maximum safety. (ii) Fail-safe system ensures that in case of exhaust failure
- Must meet American (NSF/ANSI) or European standard EN 12469 (type tested) or both. Must submit a copy of EN 12469 or NSF/ANSI certification along with the quote (it is mandatory and without the valid certificate the quote will be considered as non-responsive).
- Complete installation along with connection to exhaust ducting system will be the responsibility of the firm.

2. Refrigerator (300 Litres or more)

- 1 No

For storing blood plasma and other blood products, vaccines, other medical or pharmaceutical supplies. Also to cool samples or specimens for preservation. For faster pull-down and recovery times, it should have bypass refrigeration and microprocessor-based controls

Technical Specifications

1. Laboratory refrigerator should have 330 ltr capacities.
2. Temperature range from 2 deg C to 10 deg C.
3. It should have galvanized sheet steel construction, white powder coated and adjustable feet.
4. No welded joint to be exposed for rusting.

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- 5. Insulation of high-grade pressure – foam material.
- 6. Lockable door with plastic magnetic sealing surround.
- 7. Automatic defrosting and condensed melt water evaporation.
- 8. Re-circulating air-cooling system.
- 9. Control panel with thermometer, main switch and temperature selection.
- 10. Hermetically enclosed, low noise, vibration proof compressor.
- 11. Visual and a caustic signal alarm system.
- 12. Epoxy coated outside finish and S/S interior.
- 13. Low noise, automatic defrosting, Freon free.
- 14. Should be CFC free.
- 15. Temperature indicators to be provided.
- 16. Power input to be 220-240VAC, 50Hz.
- 17. Should be CE or FDA or BIS approved product

3. Boiling Water Baths with lids having 8 – 12 holes - 6 Nos.

- 1. Useful for dual purpose. It should be a rectangular water bath with stainless steel trays having 8 to 12 holes and concentric rings, to accommodate 12 beakers/ flasks of 100 ml each. Optional tray capable of accommodating 250 ml flask and 500 ml flask may be made available.
- 2. Standard double wall construction. Inner chamber made out of highly polished stainless steel sheet of 304/316 grade and exterior made out of thick mild steel duly finished powder coated paint.
- 3. Glass wool insulation between sheets
- 4. Immersion heaters are provided for heating to attain temperature range from 5° C above ambient to 95° C ± 1 °C.
- 5. Digital temp. Indicator-cum-Controller with precise accuracy of ± 1 °C. The equipment to work on 220v AC 50 Hz single phase.
- 6. Minimum chamber size in mm & inches L x W x H 300 x 225 x 175 mm Approx Capacity approx 15 ltrs. atleast .
- 7. Should be CE or FDA or BIS approved product

4. Autoclave Electric (Vertical) - 2 Nos.

- 1. The water reservoir shall have a capacity that is sufficient for minimum 10 cycles.
- 2. The reservoir shall have a float that reads the level of the water that indicates on the display when the reservoir needs to be refilled.
- 3. The sterilization chamber shall have a capacity of at least 5 litres, constructed of stainless steel of 304/316 grade
- 4. The sterilizer shall function with a micro - processor which controls a defined volume of distilled water that is pumped into a boiler, converted into steam, and then injected into the sterilizing chamber.
- 5. The micro processor shall accurately control and monitor the sterilizing temperature and pressure.
- 6. The sterilizer shall have a keypad, which controls the pre-set programs and the start control with a single touch.
- 7. Unwrapped Cycle - To sterilize unwrapped instruments the sterilizing cycle shall be constant at 134°C for 3.5 minutes. The total cycle time including warm up, pressurization and de-pressurization shall not be more than 11 minutes.
- 8. Wrapped Cycle - To sterilize wrapped instruments the sterilizing cycle shall be constant at 134°C for 6 minutes. The total cycle time including warm up, pressurization and de-pressurization shall not be more than 15 minutes.
- 9. Cycle for Delicate Items - To sterilize certain rubber, plastic and delicate items the sterilizing cycle shall be constant at 121 degrees C for 15 minutes. The total cycle time including warm up pressurization and de-pressurization shall not be more than 24 minutes.
- 10. Digital Display for monitoring the systems throughout the processing cycle including the temperature, pressure and time elapsed.
- 11. Power supply - 220V, 50 Hz.
- 12. The product should be CE or FDA Certified

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5. Balance – Semi-Micro

- 1 No.

1 Description of Function

1.1 Electronic Balance is required for precision weighing of Lab samples.

2 Operational Requirements

- 2.1 Microprocessor based single pan Analytical dual range Balance with High accuracy & precision is required.
- 2.2 Reading of the weight by digital backlit LED/HCD display.
- 2.3 The balance should have functions of piece counting, percent weighing, formulation, Dynamic weighing with automatic and manual start and provision for data interface- RS232 port

3 Technical Specifications

- 3.1 Weigh accurately up to 5/ 4th decimal place of 0.01mg/0.1mg
- 3.2 Fully automatic self-calibration technology- time and temperature controlled adjustment
- 3.3 Auto zero Setting
- 3.4 One touch calibration and High Resolution weighing Cell
- 3.5 Weighing capacity upto 220 gms.
- 3.6 Repeatability and resolution: 0.08mg
- 3.7 Linearity: 0.2mg
- 3.8 Stabilization time < 5 second
- 3.9 Adjustment weight (Int. wt.) 200g
- 3.10 Adjustment weight (Ex. Wt.): 500 mg, 1 gm, 10gm, 50gm, 100 gm, 200gm
- 3.11 Balance should have the following features:-
 - * LCD/HCDbacklit Display.
 - * Stainless Steel Large round weighing Pan 80mm Dia.
 - * With two built-in weights, for constant accuracy over the entire weighing range
 - * Warns if the Balance is not correctly levelled to ensure accuracy of the result.
 - * Fast and convenient dismantling of the draft shield should have height of 235mm.
 - * Smartrac Shows how much of the entire weighing range has been used.
 - * Programmable keys for shortcut access to preferred applications.
 - * Easy running of balance diagnostics tests e.g. keypad test, repeatability test
 - * Supplier Should Be Authorized VAR of Company.

4 System Configuration Accessories, spares and consumables

- 4.1 System as specified
- 4.2 Should be supplied with standard external and internal weights as specified.

5 Environmental factors

- 5.1 Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility Or should comply with 89/366/EEC; EMC-directive.
- 5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
- 5.3 The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%

6 Power Supply

- 6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
- 6.2 Should Be Supplied With Battery Backup System for voltage regulation and 30-60mts backup.
- 6.3 Resettable overcurrent breaker shall be fitted for protection

7 Standards, Safety and Training

- 7.1 should comply with ISO/GLP with auto validation with Printer
- 7.2 Should be FDA or CE or UL or BIS approved product
- 7.3 Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450
- 7.4 Manufacturer/Supplier should have ISO certification for quality standards

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5. Colorimeter

- 6 Nos.

1. Photoelectric colorimeter with 8 filter digital (490, 520,540,570,610,620, 650, 700 nm)
2. Digital colorimeter should be highly stable and accurate ideal clinical instruments for blood and chemical analysis.
3. Should have 8 filters with battery option.
4. Range: 400nm to 700nm filters 8 high standard filters, Accuracy: +/-0.010.Abs
5. Output Optional, Density 0 to 1.99, display 2.5 digit LED display, detector selenium photo cell light.
6. Source 6.2V 0.3 Amp. Tungsten filament Lamp,
7. Min volume 1 ml
8. Power 230V+I- 10 50Hz Ac.
9. Size (LxBxH) 225 x 230 x 150mm (Appox),
10. Weight: not more than 4 kg.
11. ISO certified
12. 2 year warranty

Accessories:

- Test Tubes 5 Nos.
- Light Source Bulb
- Dust Cover
- Instruction Manual

6. Stop Watch

- 4 Nos.

Stop watch of good quality reading at 1/5 second with LED/LCD display reading at 1/5 display

7. All Glass Distillation Plant (Vertical)

- 3 Nos.

Technical specifications:

1. The glassware should be made of high quality borosilicate/ quartz glass (preferably quartz glass) to withstand high heat.
2. Apparatus capacity should be of atleast 4 litres/Hr.
3. Should be double stage for providing Gradel/GradelI water, suitable to be used on HPLC system
4. Should have metallic stand and other accessories.
5. Stand should be made of rust free material.
6. Standards heating elements of 3 to 4 KW to be used.
7. An automatic cut off device should be attached.
8. Heater should be of quartz for immediate output of distilled water. Apparatus should consist of high quality Borosilicate Boiler with built in water leveler.
9. Output water should be pyrogen-free with conductivity less than 1 micro siemen, ph 6.9-7, distillate temp 65-75 deg C.
10. Automatic cut off device or safety control module.
11. Power input to be 220-240 VAC, 50 Hz.
12. Manufacturer should have ISO or CE certification for quality standards

8. Desiccators Large Size

- 6 Nos.

Desiccators large size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of boro silicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the center for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles

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9. Desiccators Small Size

- 6Nos.

Desiccators small size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of boro silicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the center for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.

10. Centrifuge Clinical for lab work

- 6+2 Nos.

1 Description of Function

1.1 Centrifuges are required in the Laboratory to separate various components of Blood and any other liquid sample for analysis

2 Operational Requirements

- 2.1 Aerodynamic compact construction for vibration free performance
- 2.2 Table top version

3 Technical Specifications

- 3.1 Should have multiple swing out Rotor/ heads (minimum 3) for different tube sizes.
 - 3.1.1 It should have automatic Rotor identification system
 - 3.1.2 Ease of change of Rotor head without applying any force. Preferably no puller should be required for changing of Rotor head.
- 3.2 Tube Capacity: No. 12 – 36: Size 5 – 15 ml
- 3.3 Should have a digital timer and digital speed control.
- 3.4 Body should be made of strong fabricated & corrosion resistant steel / ABS
- 3.5 Control panel – for start/stop switch, dynamic brakes for quick deceleration, step less speed regulator with zero start switch & speed indicator with timer and protective fuses and should have LCD/LED display.
- 3.6 Door interlock – Safety lid lock to prevent lid opening during centrifugation and gas hinge to prevent door falling
- 3.7 Maintenance-free brushless drive motor with exact speed preselection and display. Speed range 100 to 6000 rpm and above, accuracy 1 rpm.
- 3.8 Low sample temperature rise during centrifugation

4 System Configuration Accessories, spares and consumables

- 4.1 Centrifuge complete with rotors.
- 4.2 Tube Holders as appropriate

5 Environmental factors

- 5.1 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
- 5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%

6 Power Supply

- 6.1 Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug
- 6.2 Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.(Input 160- 260 V and output 220-240 V and 50 Hz)

7 Standards, Safety and Training

- 7.1 The supplier should be ISO certified for quality standards
- 7.2 Should be FDA or CE or UL or BIS approved product

2 year warranty with 5 year AMC/CMC

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11. Digital pH Meter

- 3 Nos.

1. Description of function: will be able to measure precisely the pH of any solution.
2. Operational requirement: combined electrode with digital display of pH.
3. Automatic Temperature Compensation & Manual Temperature Compensation enabled
4. Visual end point signal
5. 200 pH measurements memory size
6. Technical specification
 - * pH: (1) range: -2.00 to 16.00 (2) Resolution: ± 0.1 pH (3) accuracy/error limit: ± 0.01 pH, (4) calibration: at least 2 point and maximum 5.
 - * ORD: (1) RANGE: ± -2000 to 2000mv (2) Resolution: 1 mv.
 - * Temperature: (1) range: $-5-105^{\circ}$ C, (2) Resolution: 0.1° C (3) Accuracy: $\pm 1^{\circ}$ C (4) calibration: offset range $\pm 1^{\circ}$ C.
 - * IQ Documents
 - * Upgradable to ISM Electrodes

4. System Configuration Accessories, spares and consumables

4.1 Should be supplied with two level standard pH solution / pH tablets.

5. Environmental factors

- 5.1 Shall meet (BIS) General Requirements of Safety for Electromagnetic Compatibility. or comply with 89/366/EEC; EMC-directive.
- 5.2 The unit shall be capable of being stored continuously in ambient temp of $0-5^{\circ}$ C and relative humidity of 15-90%
- 5.3 The unit shall be capable of operating in ambient temperature of $20-40^{\circ}$ C and relative humidity less than 70%

6. Power Supply

6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug

7. Standards, Safety and Training

- 7.1 Should be FDA or CE or BIS approved product
- 7.2 Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450
- 7.3 Manufacturer / Supplier should have ISO certification for quality standards.

13. Ultra Violet UV Lamp

- 1 No.

Features: high turbulence; non wetting surface; high reliability low maintenance

14. Bottles Dispenser (Research Model)

- 09 (04+05) Nos.

Bottle dispenser It should be designed for performance handling of liquids from a large variety of bottles and flasks, the dispensers combine the latest in dosing technology, high tech materials and ergonomic design. As a result, users benefit from universal chemical compatibility, ease of operation, superior safety and low maintenance.

VOLUME RANGE	INCREMENT	ACCURACY	QUANTITY
0.25-2.5 ml	0.05 ml	$\pm 0.6\%$	04
1.0 – 10.0 ml	0.20 ml	$\pm 0.6\%$	05

Should be ISO & CE certified
 Superior chemical resistance.
 Long lasting performance stability.
 Comfortable and convenient in use.
 Solid, yet simple construction.
 Instant volume setting.
 In-lab calibration.

Handwritten signatures:
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