

**HLL Biotech Limited
(A Government of India Enterprise)
(A Subsidiary of HLL Lifecare Limited)
BID REF No: HBL/LAB/EQUP/002/12-13 dated 20th Nov, 2012**

TENDER FOR SUPPLY AND INSTALLATION OF LAB EQUIPMENTS

INTRODUCTION OF THE COMPANY

HLL Biotech Limited (HBL) was incorporated as a subsidiary of HLL Lifecare Ltd, a Government of India Enterprise under the Ministry of Health and Family Welfare, Government of India. HBL is conceived to take the lead role in providing products, services and assistance in achieving our country's goals in immunization and eradication of deadly diseases.

HBL is setting up an Integrated Vaccine Complex (IVC) at Chengalpet, an emerging industrial hub in the southern tip of Tamilnadu state. Project outlay for IVC is Rs 6.00 Billion 80% of the products and services will be designed to meet the targets of the Universal Immunization Policy (UIP) of the country.

This project has been declared as a "Project of National Importance" by the Government of India (GoI).

SCOPE OF WORK

The scope of supply should be complying with the enclosed Technical Specification. Supplier may quote for the items against the technical specification, along with additional features. The installation has to be done by the supplier at HBL Lab Module, TICEL Bio Park limited - Taramani, Chennai.

1. Instruction to Bidders

- 1.1 The bids are invited on two stage bidding process basis. The bid will constitute of Technical bid and Financial bid (item-wise). Technical bid and financial bids (item wise) to be submitted in separate sealed envelopes. Technical bid cover & Financial bid cover (item-wise) along with EMD cover should be kept in a separate single cover super scribing with tender reference number and list of items quoted. The technically qualified parties financial bid only be opened for financial evaluation.
- 1.2 The bid is invited for supply & installation of Lab equipments at HBL Lab Module, TICEL Bio Park limited, Taramani, Chennai as per specification and other details given in the bid document. All bidders who qualify the eligibility conditions as detailed in the bid document are eligible to participate except in the case of firms who are blacklisted / barred by competent agencies or HBL in participation and award of such contracts.
- 1.3 Bidders can send their queries and clarifications to address given in clause 1.d, up to three days prior to the due date of bid submission. There is no bid document fee.
- 1.4 Bids shall be addressed in the name of **Chief Executive Officer, HLL Biotech Limited, TICEL Bio-park Campus (Module no. 013-015), CSIR Road, Taramani, Chennai- 600 113 Contact No: 044 22544949/56. Email: eas@lifecarehll.com**. Due date of submission of the bid will be on 11th December 2012 up to 15:00 Hrs. The technical bid will be opened on the same day at 15:30 hrs. The financial bid of only those bidders who are qualifying the minimum eligibility criteria & technical specification will be opened. The date & time of financial bid opening shall be intimated separately to the technically qualified parties.
- 1.5 Bids shall be valid for 60 days from the date of opening.

1.6 The bids should contain complete technical specification of the equipment along with detailed illustrations and diagrams to facilitate evaluation.

2. Mode of submission of Bids

Documents to prove the eligibility criteria should be submitted in a separate sealed envelope marked “Technical Bid”. Technical bid should consist of the following:

- a. **EMD (Earnest Money Deposit) in the form of crossed demand draft/ banker’s cheque** in favor of “HLL Biotech Limited” payable at Trivandrum, Kerala has to be submitted for Rs.3,000/- for each quoted item separately.
- b. Bid document bearing signature and seal of the bidder in all pages
- c. **Annexure : I** (Bidders Technical specification in line with our technical specification mentioned, technical brochures/datasheets/drawings/Model no)
- d. **Annexure : II** (Bid Data sheet)
- e. **Annexure: III** (Past experience, including performance certificate from clients).

All other supporting documents (mentioned in clause 3) and certificates substantiating the bidder’s eligibility shall be attached.

The financial bid should be put in a separate envelope, sealed and marked “Financial Bid”. The financial bid should contain the following

- a. Financial bid in the prescribed format given in the bid document Annexure IV.
- b. Bid form Annexure V

2.1 The bids shall be enclosed in a sealed envelope super scribing “**Tender for supply & installation of LAB Equipments, tender ref no.**”

HBL/LAB/EQUP/002/12-13 dated 20th Nov, 2012” & list of items quoted and shall be addressed to the
Chief Executive Officer,
HLL Biotech Limited, TICEL Biopark Campus (Module no. 013-015),
CSIR Road, Taramani,
Chennai- 600 113
Contact No: 044 22544949/56/70, Fax: 044 22540101.

2.2 Any bid received after the stipulated time period shall be considered as late tender and will be rejected.

3. Minimum Eligibility Criteria.

- a. Bidders shall be an authorized dealer/ agent of the original equipment manufacturer. Supporting document to be attached.
- b. Net worth of the company shall be positive during the last three financial years. **The balance sheet , profit and loss account for last three financial years (FY 2009-10, FY 2010-11, FY2011-12) certified by a Chartered Accountant shall be submitted.**
- c. The bidder in general should possess adequate experience in number of years and volume of similar supply & installation done in the past. The bidder shall have supplied and installed the same equipments in last 2 years. Purchase orders and successful completion certificates from previous clients shall be submitted.

4. Bid Evaluation

Bid determined to be substantially responsive will be checked by HBL for any arithmetic errors and same will be corrected as follows

- a. Where there is a discrepancy between the rates in figures and in words the rates in words will prevail.

- b. Where there is a discrepancy between the unit price and the total price resulting from the multiplying the unit price by the quantity, the unit price as quoted shall prevail.
- c. Domestic tenderer should quote in Indian Currency. The Indian Agents of foreign suppliers shall quote in their principal's Currency or in Indian Currency by indicating the agency commission payable in percentage of gross FOB cost. The Indian Agent should be paid in Indian Currency only as per the exchange rate prevailing on the date of placement of Purchase Order. The Foreign Supplier may quote in own currency preferably in common international currency. The benchmark date for conversion to Indian Rupees for comparison purpose is the date of opening of financial bid.

5. Exemptions/Forms

HBL will not be giving any duty exemption/drawback certificate. HBL will issue "C" form for interstate transaction wherever applicable.

6. Rejection of bids

Notwithstanding the above conditions, HBL reserves the right to accept or reject any offer, and to annul the tender process and reject all offers, at any time prior to award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligations to inform the affected Bidder or Bidders of the grounds for HBL's action.

7. Notification of Award

- 7.1 Prior to the expiry of the period of offer validity prescribed by HBL, HBL will notify the successful Bidder by Tele-fax or e-mail, to be confirmed in writing by registered post/ by courier, that his offer has been accepted. The

purchase order will be issued to the successful bidder. No correspondence will be entertained by HBL from the unsuccessful Bidders.

7.2 Upon selection of the successful bidder (technically qualified L1 party- item wise) HBL will promptly notify the same to successful Bidder through an LOI/Purchase Order.

7.3 EMD's of unsuccessful bidders will be returned after finalizing the L1 Party.

TERMS AND CONDITIONS

1. DEFINITION:

1.1 For the purpose of this contract, the following words and expressions shall have the meaning hereby assigned to them except where the context otherwise requires:-

- i. "HBL" means HLL Biotech Limited, which expression shall unless excluded by or repugnant to the context include HBL's representative.
- ii. "Contractor/ Bidder" Means successful lowest bidder.
- iii. "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- iv. "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- v. "Consignee" means the organization/person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of dispatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.

2. PAYMENT SCHEDULE:

The payment will be made as specified below:

On supply of material at the desired location & after successful installation & calibration/validation	100% of the order value
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3. TAXES AND OTHER LEVIES.

The quoted price shall be the inclusive of all applicable taxes and duties.

4. PERFORMANCE SECURITY

4.1 The successful bidder has to furnish performance guarantee from nationalized / scheduled bank in the form of a bank guarantee in the name of HLL Biotech Limited on receipt of the purchase order. The performance bank guarantee valid up to a period of 1 year with additional claim period of 2 months for 10% of total contract value has to be submitted within 10 days from the date of Purchase Order. Bidders can adjust EMD Paid while participating in tender, against Performance Bank Guarantee.

4.2 Failure of the successful Bidder to furnish the required Performance Security shall constitute sufficient grounds for the annulment of the award of Contract.

4.3 Forfeiture of Performance Security

In case the Contractor/ Bidder fails to complete the work, HBL, without prejudice to rights and remedies available under the contract, shall forfeit and en-cash the Performance Guarantee.

4.4 In case the bank goes in liquidation or for any reason is unable to make payment against the said Bank Guarantee the loss caused thereby shall be borne by the Contractor/ Bidder. The Contractor/ Bidder forthwith, on demand from HBL, shall make good the deficit.

5. ADDITIONS/DELETIONS

- 5.1 HBL shall have the right to direct in writing for changes, additions, modifications or deletions in the design and drawings or any part of the work and to request in writing additional work in connection therewith and the Contractor/ Bidder shall comply with such directions.
- 5.2 The Contractor/ Bidder shall not make any deviations, alterations, additions, to or omissions from the work shown/described and awarded to the Contractor/ Bidder except through and with proper approval of HBL.

6. TIME SCHEDULE

- 6.1. The day of commencement of project will be reckoned from the date of issue of Purchase/ work order.
- 6.2 All the material shall be supplied & installed within 6 weeks from the date of issue of purchase/ work order.
- 6.3 The work shall be carried out with all due diligence and as per the time schedule specified above. In case of any delay/default of the Contractor/ Bidder to adhere to the agreed time schedule. HBL shall recover the liquidated damages from the Contractor/ Bidder at the rate of 0.5% (zero decimal point five percent) of the total amount of fee per day of delay of any activity subject to a maximum of 10 % (Ten percent) of the total order value. However if there is a purposeful delay by the Contractor/ Bidder, HBL reserves all rights to terminate the contract and get the full work executed at his risk and cost.

7. EXTENSION OF TIME

- 7.1 To adhere to the above mentioned time schedule the Contractor/ Bidder

shall provide on demand necessary documents, information and certificates/undertakings to HBL. Any delay in supplying the requisite documents and delay due to any other cause beyond the control of the Contractor/ Bidder shall be considered for grant of extension of time. If the Contractor/ Bidder require extension of time, they shall intimate in writing to HBL within 3 days of the occurrence of such hindrance/delay, along with proper documents.

- 7.2 HBL after satisfying itself about the reasonableness of grounds may grant extension of time, if it is justified and communicated the same in writing. Whenever such extension of time is granted, it would be without prejudice to the rights of HBL for any penal action to the extent of the delay attributable to the Contractor/ Bidder. Any extension of time granted as stated above shall neither entitle the Contractor/ Bidder to any claim for increase in their fees nor shall it release him from any of the obligations under the said agreement.

8. ABANDONMENT OF WORK

- 8.1 That if the Contractor/ Bidder/ supplier abandons the work for any reason whatsoever or becomes incapacitated as aforesaid, HBL shall forfeit/en-cash the Performance Guarantee. HBL shall be at liberty to make full use of all or any of material supplied by the Contractor/ Bidder/ supplier. The Contractor/ Bidder/ supplier shall also be liable to refund all the charges paid to him up to date plus such damages as may be assessed by HBL including the recovery of liquidated damages
- 8.2 Provided, however, that in the event of the termination of the agreement under proper notice as provided in the clause hereinafter, the Contractor/ Bidder shall be liable to refund any excess payment made to him over and

above which is due to him in accordance with the terms of this agreement,
for the work executed by him till the date of termination of agreement.

9. WARRANTY

9.1 The bidder shall give warranty of all the equipment for a period of minimum one year from the date of final acceptance certificate from HBL. HBL shall grant right of access to the Contractor/ Bidder, of this portion of the work claimed to be defective for inspection and rectification.

9.2. HBL may recover the loss from the dues of the Contractor/ Bidder in case of failure to comply with the above clause.

10. DETERMINATION AND RESCISSION OF TERMS & CONDITIONS

10.1. When the Contractor/ Bidder have made himself liable for action under any of the clauses aforesaid, HBL shall have powers:

- a) To rescind the agreement.
- b) To engage another Contractor/ Bidder to carry out the balance work debiting the Contractor/ Bidder the extra amount, if any, so spent for getting the balance work done. This amount would be in addition to the recovery of liquidated damages.

11. GENERAL

11.1 The Contractor/ Bidder shall be fully responsible for the technical soundness of the material and also ensure that the material is supplied as per the specifications.

11.2 The Contractor/ Bidder hereby agrees that the charges to be paid as provided herein (clause 3) will be in full discharge of functions to be performed by him and no claim whatsoever shall be made against HBL in respect of any proprietary rights or copy right on the part of any other party relating to plans, models and drawings.

11.3 The Contractor/ Bidder shall indemnify and keep indemnified HLL Biotech Ltd against any such claims and all costs and expenses paid by HBL in defending such claims to be borne by the Contractor/ Bidder.

11.4 The Contractor/ Bidder hereby agrees that HBL shall have the right to take out any of the activities, which in the opinion of HBL is not being performed by the Contractor/ Bidder with due diligence, and within the agreed time schedule, and which can be performed independently. The fees or the expenses incurred shall be debited to the Contractor/ Bidder.

12. ARBITRATION

12.1 All disputes or differences whatsoever arising between the parties out of or relating to the Contractor/ Bidder services, meaning and operations or effect of this contract or the breach thereof shall be settled by arbitration. Matters to be arbitrated upon shall be referred to a sole Arbitrator, to be appointed by HBL and the award made in pursuance thereof shall be binding on the parties. Such arbitration shall be governed by the Indian Arbitration and Conciliation Act 1996.

12.2 The place of arbitration shall be at Thiruvananthapuram.

13. FALL CLAUSE

The prices charged for this particular service/supply under the Contract by the supplier/service provider shall in no event exceed the lowest price at which the supplier/service provider sells the service/supply of identical description to any person(s)/organization (s) including the Purchaser or any Department of the Central Government or any Department of a State Government or any statutory undertaking of the Central or a State Government, as the case may be, during the period till performance of all Supply Orders placed during the currency of Rate Contract is completed.

ANNEXURE- I

BID REF No: HBL/LAB/EQUP/002/12-13 dated 20th Nov, 2012

The technical specifications of the required items are as follows:

Item No	Equipment	Qty	Specification
1	Gel Rocker	1 No	Speed range : 24 rpm
			Motion/pitch: 3-D/fixed 5°
			Maximum load : 1.75 lb/0.8 kg
			Temperature range : 4–40°C
			Capacity : Four 8 x 10 cm or two 10 x 20 cm blotting boxes
			Power : 120 V, 50/60 Hz, 0.03 A/230 V, 50/60 Hz, 0.015 A

Item No	Equipment	Qty	Specification
2	Vortex shaker	2 No's	Speed range: 0 - 3000 RPM.
			With speed regulator & switch for constant on & touch on.
			Speed regulator controls the degree of vibration. Interchangeable adaptors.
			Adaptor for mixing up to 18 Micro tubes (6 x 0.5 ml, 6 x 0.4 ml, 6 x 1.5 ml)
			Adaptor useful for tube, bottles or flasks up to a maximum capacity of 250 ml.
			With 3 attachments for shaking tubes, flasks & micro centrifuge tubes.
			Heavy metal base & rubber feet prevent movement of the shaker during use.
			Ambient temperature 4 °C to 65 °C
CE Certification is required			

Item No	Equipment	Qty	Specification
3	Heating block	1 No	Temperature range ambient to 120°C
			Temperature accuracy $\pm 0.2^{\circ}\text{C}$
			Temperature calibration built-in
			Microprocessor controlled temperature and time.
			Simultaneous indication of set and actual temperature and time, LCD display
			An acrylic door with lock and key to prevent accidental alteration of set temperature.
			Over temperature cut off.
			Block material-solid anodized aluminium
			Minimum 50 holes of 10 mm diameter for LAL test
			Digital timer with sound alarm 1.0 min to 96 hrs (increment 1.0 min)
CE Certification is required			

Item No	Equipment	Qty	Specification
4	Hot plate	1 No	Temperature range ambient to 120°C with Digital display
			Material of construction – Aluminium plate
			Temperature control panel for uniform temperature distribution.
			Timer : 0 to 99 (hr) or 59 (min.) continuous
			Rates voltage : 220 V
			Heating power : 200 W
			Safety device : Leak proof heating chamber over temperature
			CE Certification is required

Item No	Equipment	Qty	Specification
5	Water bath – serological with shaking	1 No	Temperature range: 5 °C to 95 °C plus boiling stage
			Temperature Accuracy (time): < ±0.25 °C
			Microprocessor PID control
			High grade platinum temperature sensors Pt 100.
			Programmable digital timer.
			Visual alarm and acoustic signaling of over temperature and of low fluid level.
			Drain valve
			Wetted material stainless steel 304
			Capacity 20 to 25 liters
			Shaking speed 10 to 200 RPM
			CE Certification is required

Item No	Equipment	Qty	Specification
6	Magnetic stirrer	2 No.s	Stirring quantity : up to 5 liter,
			Highly polished aluminium heating plate for optimum heat transfer.
			Speed range : 0-1500 rpm
			Temperature range: Room temperature - 50°C. Provision to connect a contact thermometer, enables precise temperature control.
			Stirring position : multi - min 2 to max 5
			Power : 230V, 50/60 Hz
			Digital error code display
			Microprocessor based - RS232 output
			CE Certification is required

Item No	Equipment	Qty	Specification
7	Incubator	2 No's	Capacity : 150 – 200 Liters with 3 Shelves
			Temperature Control - Microprocessor based PID Control
			Audible & Visual Alarm for temperature deviation.
			Temperature Range - Ambient + 5°C to 60°C
			Temperature Accuracy - ± 0.1 °C in 37°C-60°C
			Heater Power - 500 Watts
			Material of construction of Inner of chamber is SS 304/SS 316
			Door with EPDM Magnetic gasket for sealing.
			Unit mounted on a sturdy steel frame with caster wheels.
			Door with glass viewing window
			High grade insulation ensuring stable maintenance of temperature irrespective of atmospheric condition.
			Adjustable shelves position for increasing and decreasing shelf size
			Digital display of temperature with temperature recorder or data logger
			Forced air circulation.
Electro polished perforated SS shelves for better air flow.			
CE certification			

Item No	Equipment	Qty	Specification
8	Hot air oven	1 No	Double walled construction with air jacketed ventilation.
			Inner made of S.S.304 mirror polished
			Outer made of S.S.304 Dull finish, outer edges : Rounded/curved edges
			Equipped with thermostat & insulation.
			Temperature range Ambient to 250 °C and Accuracy: ± 1 °C.
			No of SS shelves 5
			Capacity: 250 -300 liters.
			PID controller with auto tuning facility with double display to view set & current temperature.
CE Certification is required			

Item No	Equipment	Qty	Specification
9	Analytical Weighing balance	1 No	Capacity : 0.1mg to 220 grams
			Readability fine range : 0.0001mg, Repeatability : 0.0002 mg, Linearity : 0.0002 g
			Stabilization time 1-3 seconds
			Provision for USB port/RS 232 port
			Internal calibration weights
			Built-in, motorized calibration weight: max. weighing accuracy and max. Ease of operation.
			CE Certification is required

Item No	Equipment	Qty	Specification
10	SDS-PAGE Electrophoresis with Power pack	1 No	Basic unit with Platinum electrode assembly, glass plates - notched & rectangular, 4 Gel vertical electrophoresis system
			10 well 1.0 mm thickness, Spacers - 1 mm,
			Dual gel casting stand, Metal clips, Clamp & screws
			Companion running module
			Total buffer volume 250 ml to 500 ml
			Power card to connect power pack
			Indestructible molded polycarbonate construction throughout
			CE Certification is required
			Power Pack specifications :
			Output specifications: 500V, 2.5A,500 W
			Input power nominal: 100–120/220–240 VAC, 50/60 Hz, auto switching
			Constant voltage, constant current, or constant power with automatic crossover
			Output range (Programmable)
			10–500 V, fully adjustable in 1 V steps
			0.01–2.5 A, fully adjustable in 0.001 A steps
			1–500 W, fully adjustable in 1 W steps
			Timer control :fully adjustable
			Automatic recovery after power failure
			LCD display
			Safety features: No-load detection, sudden load change detection, ground leak detection, overvoltage detection, input the protection, auto power-up after power failure
CE Certification is required			

Item No	Equipment	Qty	Specification
11	pH meter	2 No's	pH range : 0-14, Resolution : 0.1, 0.01, 0.001, Accuracy : ± 0.02
			Temperature range : -5°C to + 150°C, Resolution : 0.1, Accuracy : ± 0.1
			mV : ± 2000 , Accuracy : ± 0.01 °C, Resolution : 0.1, Accuracy : ± 0.2
			Automatic temperature compensation with slope correction
			Three point calibration
			Buffer solution of pH 4, 7 and 10 for calibration.
			Spare set of electrode with washing bottle.
			Simultaneous measurement of pH, mV and temperature.
			Calibration data with date and time.
			Calibration reminder alarm.
			Audible beep indication during valid key operation.
			Combined pH and conductivity measurement.
			CE compliance
			Power : AC adapter, optional AA batteries
			Water proof
			Interface : USB or RS 232
Display : 4 Digit LCD			
With automatic temperature controller probe,			
Automatic temperature compensation with slope correction			
Temperature range - -5°C to + 100°C			

Item No	Equipment	Qty	Specification
12	ELISA Plate reader	1 No	Wave length range 200 - 800 nm – Micro plate type: 96 well plates
			Absorbance measurement range 0 - 4.0 OD
			Measurement Methods: Single wavelength, Dual wavelength, Two point's method, Dynamic assay, Multiple wavelengths.
			Blank Ways: single well blank, multiple wells blank, rows and columns blank
			Calculation Method: absorbance, single point calibration, linear regression, quadratic curve, four parameters equation
			Linearity: $\pm 0.5\%$ or $< 0.025 A$, Measuring time: 3sec. /Plate (continuous mode).
			Repeatability Difference: $< 0.1\%$ or $\pm 0.0025A$
			Power supply : 200 – 240V, 50/60 Hz,
			Display: LCD
			Save Information: more than 300 test programs, results of 50 pieces of 96 well, 100000 test results
Shake function: User-programmable timing and frequency			
CE Certification is required			

Item No	Equipment	Qty	Specification
13	Binocular compound Microscope	1 No	Stand: Single mold sturdy stand with anti rust materials. Extended base with hand rests for enhanced stability and comfort
			Viewing bodies : Binocular tube 45° inclined, 360° rotatable, interpupillary distance 54-74 mm
			Eye pieces : Wide field focusable paired eyepiece WF 10x/18mm, with foldable eye guard, lockable, anti-fungus coating
			Nose piece : Quadruple nose piece(Ball bearing type) with rubber grip
			Objectives : LP series - achromatic objectives 4x, 10x, 40x (spring loaded, oil)
			Mechanical stage ; Mechanical stage with Co-axial drive, highly smooth on ball slides, stainless steel Holders for Slide 75 X 50 mm movement
			Condenser: Sub-stage condenser NA 1.25 with aspheric lens. Iris Diaphragm with blue filter. Rack and pinon movements on metal guides.
			Focusing : Co-axial coarse and fine focusing on ball drive system for smooth movement
			Illumination : Halogen : 6V-20W illumination with variable illumination control, up to 2000 hours of halogen lamp life
			Electrical : In put 220 V-240 V AC
Dust cover, cleaning cloth, power cord and spare fuse.			

Item No	Equipment	Qty	Specification
14	Autoclave	1 No	Sterilization Temp. Selection: 121 °C / 135 °C with 0.1 °C resolution
			Chamber Capacity: 100 Liters (Minimum)
			Chamber & Door (Lid): Stainless Steel : 304
			Auto-Fill water system
			Water Consumption per Cycle should be minimal
			Auto-Dry function, Dry time 30 MIN.
			Power Supply: 230V 50/60Hz
			Power Consumption: 2900W / 13 Amp, Heater 2300W, Dry Heater 600W
			SS 304 - Sterilization Basket × 2,
			Heater Cover × 1, Clip x 1pc, Exhaust hose x 2
			LED Display
			Pressure Display: Pressure / Temperature Gauge
			Program (Function) Display: LED Display
			Indicator Light for Power, Add-water, Heat, and Sterilization. Exhaust, Dry, Complete, Door Closed, Low Water, Overheated / Over pressured.
			Program For Selection: 121 °C / 135 °C, Wrapped / Unwrapped, Dry / Un-dry, Liquid
			Safety Specifications:
			a) Pressure Safety Valve:
			b) Over Pressure protection
			c) Overheated Protection: Independent temp. Protection device with warning LED
d) Electric Overload Protection:			
e) Door Lock: Micro switch sensor warning LED			
f) Pressure Door Auto-Lock			
g) Chamber Water Level: Water level sensor with warning LED.			
h) Vacuum Release Switch			
i) Elec. Microprocessor Pressure Control System			

Item No	Equipment	Qty	Specification
15	Water Purification water system	1 No	Type-1 ultrapure water system
			Provide type-1 ultra pure water from tap water feed.
			The system includes Pre filter, RO system, storage tank and Type-1 system
			Should have facility of wall mounting
			Monitor TOC
			LCD display to show TOC, Conductivity, pH value , Temperature
			Product water quality :
			Conductivity < 20µs/cm,
			TOC < 50 ppb
			Microbial contents < 1 CFU/ml
			Resistivity : <0.005 MΩ X cm
			Flow rate for ultra purified water: 1.0 to 2.0 liters/min
			Flow rate for R.O water : 16-24 liters/hr
			Final filter should be 0.22µm and should be validated according to guidelines
Power supply 100-240 VAC			
Operating temperature : 2°C -35°C at max 80% humidity			

Item No	Equipment	Qty	Specification
16	UV –Vis Spectrophotometer	1 No	Wavelength range: 190 to 1100 nm,
			Wavelength accuracy: ± 0.1 nm at D2 peak 656.1 nm, ± 0.3 nm for entire range.
			Wavelength repeatability : ± 0.1 nm, scanning speed : 10 to 8000 nm/min
			Baseline stability : 0.0002 Abs @ 500 nm
			Photometric accuracy : ± 0.002 Abs at 0.5 Abs
			Photometric Repeatability : $<\pm 0.001$ Abs at 0.5 Abs
			High intensity Tungsten Halogen and Deuterium lamp with automatic changeover.
			High sensitivity matched pair Silicon Photodiode detector.
			Compliance with all Pharmacopoeia requirements.
			Built in validation program diagnostic and security functions
			Operational modes as standard photometric, quantitative, spectrum scan, kinetics, DNA & protein, software function.
			Quartz cell - 1 pair
			Power requirement : 110-V-240V, 50/60 Hz
Cuvette shaft- Accommodate plastic disposable, standard Quartz/glass Cuvettes and micro volume adapters			
Temperature Range: 20 - 42°C with 0.1 °C increment.			
CE Certification is required			

Item No	Equipment	Qty	Specification
17	Refrigerated Table top centrifuge	1 No	Temperature Range: -9 °C to +40 °C, with Digital control
			Maximum speed : 15,000 RPM, Accuracy : ± 20 RPM with Digital Speed control
			Timer : up to 9 hours, 99 minutes
			Refrigerant : HFC 134a or higher
			Power supply : 230 V/50-60 Hz
			Fixed Angle Rotor for 6 x 50 ml tubes including rotor lid
			Adapter for 15 ml tubes (Set of 2),
			Swing bucket rotor with max 100ml capacity, 5000RPM (4500 x g) and adapters capable of holding max 16 no's of 15 ml conical centrifuge tube and 4 no's of 50 ml Conical centrifuge tube.
			Separate Fixed angle rotor with 30 positions for 1.5/2ml tubes and speed 14000RPM (20,800xg)
			Automatic Rotor recognition to sense rotor type to set max allowable speed and with speed limitation for maximum safety
			All rotors, lid, buckets and adapters should be autoclavable.
			Centrifuge timer should start after the set RPM reached
			Standby Refrigeration for maintaining temperature when not in use
Fast temperature function for fast pre-cooling (15min).			
CE certification			

ANNEXURE- II

Bid data Sheet

S.no	Description	Details
1	Bid reference number	HBL/LAB/EQUP/002/12-13 dated 20th Nov, 2012
2	Due date for submission	11 th December 2012 15:00 Hrs
3	Name & Address of bidder	
5	Year of establishment	
6	Type of the firm	Public Ltd/Pvt Ltd./Partnership/Regd firm
8	Name & Address of Directors/Partners	1. 2. 3.
7	PAN Number	
8	Contact Phone-Office	
9	Cell	
10	Email	
11	Copy of MOA/partnership deed/Registration	Attached/Not Attached
12	Copy of PAN of Directors/Partners	Attached/Not Attached
13	Latest IT return statement	Attached/Not Attached
14	Past three years P&L, Balance Sheet	Attached/Not Attached
15	All pages of bid document signed	Attached/Not Attached
16	Power of Attorney/Authorization to sign the bid	Attached/not Attached
17	Bid document signed by the authorized in all pages	Attached/Not Attached
18	EMD (in favor of HLL Biotech Limited in the form of Demand Draft / Banker's cheque from a Nationalized or Scheduled bank, payable at Trivandrum)	Attached/Not Attached

ANNEXURE- III

Number of projects for which Lab equipments – Item no:
(As per Annexure-I-Technical specification) were supplied & installed in the last
TWO years

Sl. No.	Name and location of the Project	Name and address of the Client	Project Details		Completion Date
			Brief of the items supplied	Project Value Rs Lakhs	
1					
2					
3					
4					
5					
6					

Satisfactory completion certificate from the client to be attached.

ANNEXURE- IV

Financial Bid for Lab equipments						
<p>Having examined the documents and requirements of Lab equipments-Item No : As per the specifications indicated in the Annexure I, We the undersigned, offer to supply the Lab equipment Item no : as quoted below:</p>						
Item No as per Annexure I	Description of equipment	UOM	Qty	Make & Model No (Vendor to specify)	Unit Rate (Rs)	Amount (Rs)
Grand Total (Inclusive of all applicable Taxes and Levies) In fig						
Grand Total (In Words)						
NOTE: (a) For detailed specifications refer ANNEXURE I						
(b) Rates quoted are inclusive of all taxes & duties and FOR destination at TICEL Bio Park, CSIR Road, Taramani, Chennai, India						
						Signature of the Bidder & Seal

ANNEXURE- V

BID REF No: HBL/LAB/EQUP/002/12-13 dated 20th Nov, 2012

BID FORM

Having examined the bidding documents, including amendments of which is hereby acknowledged, we, the undersigned, offer to execute the contract including the supply and delivery of the goods in full conformity with the said bidding documents for the sum of:

Rs:

IN WORDS

(Hereinafter called “the Total Bid Price”) or such other sums as may be determined in accordance with the terms and conditions of the Contract. The above amounts are in accordance with the Price Schedules attached herewith and are made part of this bid.

We undertake, if our bid is accepted, to execute the contract in accordance with the delivery schedule specified in the schedule of requirements.

If our bid is accepted, we undertake to provide a performance security in the form, in the amounts, and within the times specified in the Bidding Documents.

We agree to abide by this bid, for the Bid Validity Period specified in the Bid Data Sheet and it shall remain binding upon us and may be accepted by you at any time before the expiration of that period.

Until the formal final Contract is prepared and executed between us, this bid, together with your written acceptance of the bid and your notification of award, shall constitute a binding Contract between us. We understand that you are not bound to accept the lowest or any bid you may receive.

Dated:

Signed by:

In the capacity of