HLL LIFECARE LIMITED
(A Government of India Enterprise)
CORPORATE R & D CENTRE,
AKKULAM, SREEKARIYAM P.O,
THIRUVANANTHAPURAM-695017
Email: crdc@lifecarehll.com
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INVITATION FOR BIDS
(TECHNICAL BID)

FOR

Supply, Installation and Commissioning of various Equipments
Quantity: Mentioned along with equipments

AT

CORPORATE R & D CENTRE,
AKKULAM, SREEKARIYAM P.O.
THIRUVANANTHAPURAM – 695 017

HLL LIFECARE LIMITED
(A Government of India Enterprise)
Corporate R & D Centre,
Akkulam, Sreekariyam P.O.
Thiruvananthapuram - 695017

Tender No. : HLL/CRD/PUR/TENDER/2013-14/10 20th November 2013

TENDER NOTICE

Sub:- Supply, Installation and Commissioning of various Equipments

Sealed and super scribed tenders under two bid systems are invited from manufacture(s)/Authorized Agent(s) for the supply of Equipments at HLL Lifecare Ltd, Corporate R&D Centre, Akkulam, Sreekariyam P.O., Thiruvananthapuram – 695 017.

Name of the Item	Quatity	Tender No:	Date & Time of Opening of Technical bids
Supply of Equipments (Details of equipments mentioned below)	Mentioned along with equipments.	HLL/CRD/PUR/TENDER/2013-14/10 dated 20th November 2013	11/12/2013 at 10:00 am (Local Time)

The detailed Tender Notice and tender documents can be downloaded from our website www.lifecarehll.com. At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the Tender documents by issuing suitable amendment(s) to it.

The last date for the tender is 10/12/2013, 05:30 pm (Local Time).

HEAD(R&D)
Ph No.: +91 471 277 4700
Fax No: +91 471 277 4707
Email: crdc@lifecarehll.com

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

CONTENTS OF BIDDING DOCUMENTS

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

I - INSTRUCTIONS TO BIDDERS

1. The Bid is intended to procure material as per specification in Schedule A. The scope of vendor would be to comply with the enclosed URS Plan, supply, execute commission & validate the system as per URS.

2. Quote for the unit against the URS, along with all options. The price to include all spare parts; documentation; packing; freight charges; start-up & commissioning; complete qualification package (DQ, IQ, OQ and PQ (Wherever applicable) and training and charges whatsoever required completing the task in all respects to ensure the equipment operation is in accordance with the requirements of design documents.

3. This is a two Bid system comprising of:

   a) Technical Bid b) Price Bid

4. A complete set of bid documents can be down loaded from our **Website www.lifecarehll.com and cost of the Tender Documents of Rs.300.00 (DD Only – in favour of 'HLL LIFECARE LIMITED' payable at 'THIRUVANANTHAPURAM') should be furnished along with Technical Bid.**

5. Both the Bids shall be submitted in sealed covers separately. Tender Nos. of the Technical Bid and Price Bids shall be super scribed on the respective covers in order to clearly identify between the 2 Bids. The two separately marked Bids enclosed in a single sealed cover with the respective Tender No. mentioned thereon, complete in all respect, addressed to the **HEAD(R&D), Corporate R & D, HLL Lifecare Limited, Akkulam, Sreekariyam P.O. Thiruvananthapuram – 695017, Kerala, India** should reach us on or before the due date and time mentioned in the Tender Notification. HLL shall not be responsible for any delay. Tender brought to the office after prescribed time will not be accepted. **In both envelops (Technical Bid and Price Bid) the bids tender name should be enclosed in separate envelops.**

6. Tenders should be submitted in sealed cover properly sealed by sealing wax/packing PVC tape. Covers, which are closed by gum or staples only, will not be considered.

7. HLL Lifecare Limited, Corporate R & D centre has not registered with Sales Tax Authority, hence don't have Tax Payer's Identification Number (**TIN**) / CST No. So the sales taxes will be applicable as per the VAT rules / CST rules (without 'C form). No exemption certificate will be provided by the consignees for custom duty, central Excise duty etc. For dispatching purpose, Form 16 (as per KVAT rules) will be issued upon request.

8. a) The last date of receipt of Techno-commercial Bid is: 10/12/2013 at 05:30 pm (Local Time)

Technical Bid opening details : -

i) Venue : Conference Hall, Corporate R &D Centre, Akkulam, Thiruvananthapuram.
ii) Date & Time : 11th December 2013, 10:00 am

9. In the event of the date mentioned above being declared subsequently as holiday for the Corporate R & D Centre, the due date for submission and opening of bids will be the next working day at the same venue and time.

10. Means of communication: E-mail messages and facsimiles (fax) may be used for communication as alternatives to traditional letters and telephone conversations.

11. The tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

12.The Purchaser may, at its discretion, extend the date & time for the submission of bids by amending the bid documents in which case, all rights & obligations of the Purchaser & bidders shall the subject to the extended date & time. At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the Tender documents by issuing suitable amendment(s) to it will be will be notified in the website of www.lifecarehll.com / The interested parties are advised to regularly visit the website for further updates.

13. The purchaser has right to waive the tender clauses at any time.

14. The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender.

15. Bids received after the deadline for submission shall not be considered. HLL will not be responsible for any delay in transit of tenders sent by post.

16. For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currencies say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.

17. The Bidder is expected to examine all specifications, Instructions, Forms, terms and conditions given in the Bidding documents. Failure to furnish all information required in the Bidding documents or submission of a Bid not substantially responsive to the bidding documents in every respect will be at the Bidders risk and may result in rejection of the Bid. Any clarification required will have to be obtained within 5 days prior to the Date of opening of the Technical Bid.

18. A Declaration as given in **Schedule E** stating that ALL TERMS AND CONDITIONS of this Tender is acceptable should accompany the tender failing which the tender is likely to be summarily rejected.

19. The Price Bid of those Tenderers who do not qualify in the Technical Bid will be returned unopened. For the technically qualified tenderer will be informed through e mail one day (24 hours) before the price bid opening.

20. If a Tender is not substantially responsive (Non-Responsive), it will be rejected by the Purchaser and cannot subsequently be made responsive by the Tenderer by correction of the nonconformity.

21.The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the Tender document. The tenders, which do not meet the basic requirements, are liable to be treated as non – responsive and will be summarily ignored. A non-responsive tender is one which deviates technically or commercially from any specific provision in the tender enquiry.

22. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct.

The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with **National Small Industries Corporation, New Delhi** for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with NSIC). The EMD should be furnished in the name of "**HLL Lifecare Limited, payable at Thiruvananthapuram"** from any nationalised bank or scheduled bank, but not cooperative banks. In case of bank guarantee, the same is to be provided from any scheduled nationalized bank in India or as per the HLL format (available on request) and the period of bank guarantee will be for 60 days, if the tender awarded the validity will be extended upto installation and satisfactory working.

In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank or scheduled bank, but not cooperative banks in India by way of back-to-back counter guarantee.

Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.

Earnest money deposit (EMD) for disqualified and non L1 tenderers will be return after awarding purchase order. For the L1 tenderer the EMD will be return after sucessful installation, satisfactory working and receipt of 10% performance bank gurantee confirmation from the respective bank.

23. The following are some of the important aspects, for which a tender shall be declared **non – responsive** and will be summarily ignored; '

(a) Tender form as per Schedule B, C, D, E, F & G (signed and stamped) not enclosed
(b) Tender is unsigned.
(c) Tender validity is shorter than the required period.
(d) Required EMD (Amount, validity etc.) / exemption documents have not been provided.
(e) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Schedule B, 2:C.
(f) Goods offered are not meeting the tender enquiry specification.
(g) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.

(h) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
(i) Poor/ unsatisfactory past performance.
(j) Tenderer has not agreed to give the required performance security.

24. The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

25. The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.'

26. The tenderer has to supply and install the equipment with in the stipulated time period as mentioned in tender document Schedule D Clause 4. If any delay in supply of equipment, the tenderer will impose a penalty @0.5% value of the material per week of delay subject to a maximum of 7.5% of the contract value (contract value inclusive of all taxes, duties, transportation, discounts etc.).

27. In case the Tender document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates established by the Reserve Bank of India for similar transactions, as on the date of 'Price bid' opening.

27. Those bidders who download the tender documents from our website should furnish the Name and address of the vendor, name of contact person, telephone & Fax numbers and Email details immediately by fax/Email.

28. If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

29. Any changes pertains to this tender shall be communicated only through our website www.lifecarehll.com

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Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

Details of Specification of Equipments

SN.	Name of the Equipment	URS (User Required Specifications)	Qty Required	EMD Amount (Rs.)
01.	**Refrigerator (-20)**	• Capacity in litres- 344 • Temperature range: -17 deg C to -24 deg C • Should have advanced microcontroller for temperature setting • Should Digital display of operating parameters • Should have Alarm for abnormalities • Zero ODP based insulation ▪ ODP Class- Low ▪ GWP- <0.1 ▪ Low thermal conductivity (19.5 to 20.5 mW/mK @10 'C) • No. of shelves required - 8 adjustable. • Single solid door. • Should have Lockable castors. • Dimensions- 24/24/73 inches WDH • Power- 220V/50Hz **Certifications required :** ISO 9001 & ISO 14001	1	2,000.00
02.	**Weighing Balance (210 gm)**	**Features required** • Capacity: 210 g • Readability: 0.1 mg • Repeatability: 0.1 mg • Linearity: ±0.2 • Display Type: 2-line Alphanumeric Backlit LCD Display • Pan Size (Diameter) (in/cm): 3.5/9 • Weighing Units: Milligram, Gram • Application Modes: Weighing, Gross/Net/Tare Weighing, Totalization, • Selectable Environmental Filters, RS232 Interface with full GLP/GMP Protocol, • Easy to Clean Stainless Steel Platform, Glass & Steel Construction • Stabilization Time (s): 4 seconds • Sensitivity Drift (10-30°C): ±2 ppm/°C • Calibration: Automatic internal, Manual external • Should have all necessary Approvals	1	5,500.00

03.	**LN2 Refrigerator**	**Features** • LN2 Capacity, Liters: 38 • Static Hold Time, Days: 135 • Evap. Rate, Liters/day: 0.28 **Dimensions** • Necktube, mm: 127 • Outside Diameter, mm: 470 • Height, mm: 698 • Empty Weight, kg: 14.5 • Full weight, kg: 46.5 **Canisters** • Length, mm: 279 • Inside Diameter, mm: 75 • Number: 10 **Capacity** • 0.5 cc Straws on canes: 3900 • 5cc Straws Bulk: 9700 • Vial 1.2 ml/2.0 ml: 1100	1	4,000.00
04.	**Micropipette**	**Features** • Should have Volume setting with click stop • Should have Volume colour-coding • Should have Thermal insulation of internal components • Should have Large numbers in volume display • Should have Easy to use "do-it-yourself" calibration • Should have Materials with high chemical and UV-resistance • Should be Fully autoclavable without disassembling **Volumes** • Single Channel Pipettor 0.5 - 10µl; 0.01µl increment • Single Channel Channel Pipettor 10 - 100µl; 0.10µl increment • Single Channel Channel Pipettor 20 - 200µl; 0.20µl increment • Single Channel Channel Pipettor 100 - 1000µl; 1.00µl increment • Single Channel Channel Pipettor 500 - 5000µl; 10.0µl increment	2	5,500.00
05.	**Vortex mixer**	**Features** • Should have Wide speed range, infinitely adjustable • Attachments should securely click onto appliance • should have Compact design • should have Short-time operation activated by pressing attachment (touch function) • should be Stable at high speeds • Type of movement: orbital • Shaker diameter [mm]: 4 • Motor rating input [W]: 58	1	500.00

		• Motor rating output [W]: 10 • Speed min (adjustable) [rpm] 500 • Speed range [rpm] 0 – 2500 • Operating mode: continuous • Touch function • Voltage [V] 200 - 240 • Power input [W] 60		
06.	**Water bath (10 L)**	**Required features** • Temperature Range: Ambient +5° to 100°C • Temperature Uniformity: ±0.2°C • Temperature Stability: ±0.25°C • Primary and automatic safety thermostats • Temperature Range: Ambient +5° to +100°C • Working Access (L x W x D): 10.6 x 11.6 x 5.5" 26.9 x 29.5 x 14 cm • Overall Dimensions (L x W x H): 16.7 x 14.8 x 11.8" 42.4 x 37.6 x 30 cm • Heater: 500 Watts • Should have cover for: ▪ Accommodating glassware of varying heights ▪ Tilting out of the way while loading or unloading samples ▪ Allowing condensate to drain neatly back into the bath. • Should have Easy to use Digital Temperature Controller ▪ Calibration capability.	1	3,000.00
07.	**Cell culture Bioreactor**	**Features** Volume: 2L Jacketed Working Volume min.0.4 L Working volume max: 1.6 L Aspect ratio H/D- 2:1 • Agitation system: magnetically coupled drive • Stirrer speed (rpm): 1 – 2000 rpm • Impellers: Rushton type • Gas sparger • Gas overlay • Gas mixing: Standard set-up should include Air, O2, CO2 and N2 gas mixing station, Standard set-up should include Massflow controllers for automatic gas flow control and data recording • Exhaust gas: should have Water cooled exhaust gas Condenser • Sampling: should have Sanitary sampling system with Fixed height or Height adjustable • Harvesting: should have Sanitary Drain pipe or Dip tube Fixed height • Liquid additions: should have Triple or single inlet ports for chemicals additions (optional micro liquid injectors) • pH: should have pH sensor, should have PLC and	1	40,000.00

		SCADA Software Control: via acid pump or CO2 gas (MFC) in combination with alkali pump and/or other actuators. • DO2: should have DO sensor, should have PLC and SCADA Software Control: via or in combination with N2, Air, O2 (MFC) and agitation or nutrient addition pump or other actuators • Temperature: should have Pt-100 sensor in thermo well in top plate. PLC and SCADA Software Control: cooling and/or heating jacket via bioreactor wall or via internal heat exchanger, cooling via tap water or chilled water • Foam: should have Height adjustable conductivity based foam and level sensor, PLC and SCADA Software Control: Anti foam addition pump or other actuators. • Level: should have Height adjustable conductivity based level sensor. PLC and SCADA software Control: pump for liquid addition or removal • Pressure: should have Pressure sensor top plate mounted. PLC and SCADA Software Control: modulated pressure valve, combined with air inlet, Flowmeters/MFC, agitation and other actuators		
08.	**Automatic Cell Analyzer**	**Features** • Sample Types-Whole cells • Input Cell Numbers- cell concentrations of 10,000–500,000 cells/mL • Sample format- Single loader, < 2 minutes per sample -Cell volume and number of cell events counted should be specified • Cell Types that can be used- Homogeneous or heterogeneous, suspension or adherent cells. Primary cells or cell lines (Mammalian & insect cell line) • Cell Size-Size Range: 2–60 microns in diameter (not applicable for bacteria) • Assay Formats- should have dedicated optimized & formulated kits for listed applications only: Cell Counts, Viability, Apoptosis, and Cell Cycle assays with a run time of <2 min. • Software Interface- should generate data output designed for each experimental application. Touch screen ease-of-use operation • Data Storage Capacity: 10GB • Optics – Laser: Green – 532nM diode laser • Optics – Detectors: Optical module with three detection channels • Should have 3 Photodiodes for detection of: -2 fluorescent colors: ➢ Yellow fluorescence detection at 575nm +/-12.5nm ➢ Red fluorescence detection at 690nm +/-15nm -1 scattering signal • Photodiode module should be fully detachable and	1	21,000.00

		replaceable • Fluidics - Microcapillary system should be present -Pump: stepper motor syringe pump		
09.	**Table Top Twin Screw Microextruder with film line**	➢ It should complies with GMP model ➢ It should be Table top model ➢ It should be useful for life science / pharma application. ➢ Should have a flexible barrel housing system and double conical, co-rotating detachable twin screws ➢ The barrel liners should be easily attached to the connectors of the extruder frame. ➢ Parts that come in contact with the product (barrel liners and screws) should be made of stainless steel (DIN 1.4112). ➢ Machine can be operated by the touch screen control panel ➢ The outlet of the extruder should consist of divisible, detachable cap with 2.4 mm die. ➢ Total volume of extruder barrel: 5 cm3 ➢ Maximum Screw length: 107.5 mm ➢ Digital RPM adjustment with a variable speed range from 1-250 rpm should be available. ➢ Maximum torque = 15 Nm per screw ➢ The machine should consist of force-sensing cell that measures the axial force. ➢ The machine should be protected against overload of axial force, ➢ Maximum force is 9.500 N. ➢ The connectors should be equipped with, 2 x 3 separately controlled heating zones (8 heating cartridges, 9 thermocouples) with an adjustable temperature range. ➢ Maximum operating temperature 400°C. ➢ The connectors should be equipped with air cooling channels. ➢ Manually operated water cooled top hopper should be available. ➢ One set of operating tools such as 1 barrel and screw set, 1 outlet die should be provided along with the equipment. ➢ Required Software for control & operation of the system should be provided with the system. The system should also have the option of operating through a touch screen panel control system. The interface between the system and the PC should be through USB. ➢ Data-acquisition and computer-control software from	1	2,00,000.00

		which data concerning processing parameters can be acquired and displayed graphically should be provided. ➢ The equipment should be processed with manual operating, standard processing cycle and cleaning-cycle. ➢ Processing-parameters such as RPM, temperatures, processing time should be programmed retrieved from standard cycles. ➢ Film winding unit should be attached with Extruder. ➢ ➢ GMP complaint 50 mm Cast film line with 0.4 mm die should be provided. ➢ ➢ Cast film line should consists of following features: ➢ ➢ Cast film die unit should be completely demountable, easy to clean. ➢ Slit width 35- 50 mm, standard slit height 0.4 mm. heated by two heat cartridges via a temperature control unit. ➢ It should have film take winding unit. ➢ The cast film line should consists of air knife (to minimize necking) and two drum winders placed on a Stainless Steel, which allows adjusting the distance to the cast film die and the distance between the two drum winders. ➢ It should be capable to produce film of thickness 0.1 mm to 0.4 mm and its suitable die also should be provided along with equipment. ➢ Complete film die winding unit should be included and should be compatible with the offered die assembly with the following minimal specifications / accessories: ➢ Winder speed controlled = 100 – 5,000 mm/min ➢ Winder torque controlled, 0 – 250Nmm. ➢ Speed controlled drum winder should have Speed adjustment from 100 to 5,000 mm/min. ➢ Torque controlled drum winder should have Torque adjustment from 5 Nmm to250 Nmm ➢ Two control boxes with integrated display- one for temperature of the die and one for the winder rolls should be available. ➢ Provision for tube extrusion die attachment. ➢ One set of another die assembly with 0.2 mm slit thickness should be provided. ➢ All the necessary accessories and its spare parts required for basic functioning of equipment should be provided. ➢ The supplier should provide the following documents to the user		

		➢ Operational manual and maintenance manual ➢ SOP for equipment operation ➢ Test certificates of 'MOC' and other certificates. ➢ Trouble shooting methods ➢ IQ, OQ and PQ documents of the equipments. ➢ Spare parts manual.		
10.	**Parallel Reactor**	➢ Should be suitable to carry up to 12 reactions. ➢ Should hold reaction volume from 1-20 mL. ➢ Should be possible to carry out rapid heating to 250º C and cooling to -70º C ➢ Should have removable water cooling reflux head which provides efficient cooling to all tubes minimising solvent evaporation and loss. ➢ Should provide Stirring bar of 13mm. ➢ Should deliver Magnetic bead remover. ➢ Digital control should be available. ➢ It should possess temperature digital control ± 0.5º C accuracy. ➢ Should possess Visibility slots. ➢ The hot plate should be able to stir all the positions evenly and powerfully. ➢ Reactor should have overload protection, high contrast display and clear symbols. ➢ The supplier should provide the following documents to the user • Operational manual and maintenance manual • SOP for equipment operation • Trouble shooting methods • Spare parts manual • CE and all other International standard certification	1	14,000.00
11.	**Parallel reactor With Overhead Stirrer**	• Should be suitable to carry up to 6 reactions up to 250 mL. • Should be ideal for both viscous samples and for the dispersion of delicate solids and polymers in solutions. • Should possess mechanical overhead stirrer with Centrifugal, anchor and propeller. • Should be able to stir all positions simultaneously. • Should be possible to carry out rapid heating up to 180º C. • Should possess water cooled reflux head. • Should be able to stir with a speed of 1000rpm in low viscous solutions and at 500 rpm for high viscous solutions.	2	56,000.00

		• Temperature sensor should be present. • Should possess internal polycarbonate safety guard. • It should possess digital temperature control ± 0.5° C accuracy. • The supplier should provide the following documents to the user ◦ Operational manual and maintenance manual ◦ SOP for equipment operation ◦ Trouble shooting methods ◦ Spare parts manual ◦ CE and all other International standard certification		
12.	**Sand mill grinder**	• Model Capacity should be 0.3 litre • Chargeable volume should be from 100 ml to 200 ml • Should have motor with variable speed and frequency drive. • Agitator should be provided be specially designed rotor for excellant grinding • Peripheral speed in the range of 11 to 13 m/s • Product contacted wear parts of hardened steel. • Beads type should be Zirconium beads having diameter varying from 0.5 mm to 0.8 mm. • Electric Panel should be Complete with Switch / Starter / AMP/Volt Meter/ Frequency Drive for speed control / Temp. Indicator for product temperature. • A chilled Water Circulation Tank be provided for circulation of chilled water in the Jacket • Provision for easy removal of all the material from the container and systems. • The machine and panel should be front mounted from ease of operation. • Replaceable Sieve with varying mesh (0.1 mm – 0.5 mm). • The supplier should provide the following documents to the user. ➢ Operational manual and maintenance manual ➢ SOP for equipment operation ➢ Trouble shooting methods ➢ Spare parts manual ➢ CE and all other International standard certification	1	12,000.00

13.	**Blister Packing Machine**	➢ Should be used for PVC / ALU, PVC+PVDC/ ALU & ALU / ALU. ACLAR, and PETG/PVC. ➢ All contact parts should be made up of stainless steel SS 316. ➢ Should be R&D model ➢ Suitable for Packing of Tablets, Capsules, Ampoules, Vials. ➢ Should consist of Forming (Thermo & Cold), Sealing, Embossing and Punching. ➢ Tool free change over should be available. ➢ In built vacuum pump for easy maintenance should be available. ➢ Temperature – between 0º C and 200ºC ➢ Maximum forming depth – 18 mm ➢ Maximum base film width : 200 mm ➢ Maximum Alu Foil width : 200 mm ➢ Output – 25 blisters / minute ➢ Water chiller unit with the cooling Capacity of 0.3TR ➢ Acrylic safety doors with gas spring for easy operations should be provided. ➢ Wheel arrangements for the easy Movements of machine should be available. ➢ Full set of format part consist of forming section, sealing section and punching assembly suitable for PVC/ALU blister packing should be provided. ➢ Full set of change part consist of forming section, sealing section and punching assembly suitable for ALU/ALU blister packing should be provided. ➢ Machine should have safety interlocks for operator safety. ➢ It should have a compressed air supply with vacuum forming for much deeper cavity formations. ➢ Heaters for thermo forming and thermo sealing should be available ➢ Emergency stop option should be available ➢ Temperature controller for preheating and sealing should be available. ➢ All necessary change parts for different packing should be provided. ➢ The supplier shall provide the following documents to the user • Operational manual and maintenance manual • Test certificates of 'MOC'	1	24,000.00

		• Trouble shooting methods • IQ, OQ and PQ documents of the equipments. • Spare parts manual ➢ The supplier shall provide the necessary training for a required period of time to the personnel of HLL Lifecare Ltd ➢ Installation assistance is required. ➢ The supplier shall provide a warranty period of at least 1 year from the date of receipt of the equipment at HLL life care Limited		
14.	**Hot Plate with Magnetic stirrer**	➢ GMP Model ➢ Body: SS 304 ➢ Top plate: Ceramic ➢ Integrated stirrer ➢ Temperature: min/max : 25/400^{0}C ➢ Stirring speed (rpm): min/max: 000/1500 ➢ Heating surface dimension: • Min/Max Length : 180/240mm • Min/Max Width : 300/ 370mm ➢ The supplier should provide the following documents to the user • Operation manual and maintenance manual • SOP for equipment operation • Test certificates of 'MOC' and other certificates. • Trouble shooting methods • IQ, OQ and PQ documents of the equipments. • Spare parts manual	2	2,000.00
15.	**Leak Test Apparatus**	➢ Body: SS as per cGMP ➢ Meets USP and package specifications ➢ Ideal for checking leakage of packed strips, blisters, small sachets and ampoules ➢ Programmable vacuum level and hold time ➢ Slow venting ➢ Validation report printout ➢ Oil less vacuum pump ➢ Vacuum level: Better than 600mm of Hg ➢ Timer: Maximum up to 99min Minimum up to 1min ➢ Vacuum setting level: Stabilize to the set value ±5mm of Hg within 30 sec. ➢ Power requirement: 230V. 50 Hz ➢ Power: 300 VA ➢ Dimensions:	1	3,000.00

		• Min/Max Length : 400/450mm • Min/Max Width : 240/ 300mm ➢ Vacuum desiccators of 300 mm dia (Polypropylene/ Polycarbonate) ➢ 12 mm round glass plate for 300 mm dia ➢ The supplier should provide the following documents to the user • Operational manual and maintenance manual • SOP for equipment operation • Test certificates of 'MOC' and other certificates. • Trouble shooting methods • IQ, OQ and PQ documents of the equipments. • Spare parts manual		
16.	**Fluid Bed Laboratory Unit (Table Top Dryer)**	➢ It should be table top R&D model ➢ It should be used for drying of pharmaceutical products without the risk of sample contamination. ➢ Drying in the table top fluid bed dryer makes use of the fluidized bed process, a technique similar to the one used in large industrial dryers. ➢ Temperature should be controllable. Temperature range : 25 - 150 °C ➢ Storable methods ≤ 9 should be available. ➢ Continuous and intermittent drying should be possible. ➢ Air flow should be adjustable and Maximum air flow 185 m^3/h ➢ Digital timer should be available (1 - 99 min) ➢ Capacity - Maximum 6 litres ➢ One drying container of stainless steel (6l) should be provided. ➢ Two drying container of glass should be provided. ➢ Drying bags and holder should be provided. ➢ Necessary clamps for fixing the drying bag should be provided. ➢ Drying container of glass with 3 x 0.3 litres including holder and filter bags should be provided. ➢ All necessary parts required for basic drying operation should be provided. ➢ The supplier shall provide the following documents to the user • Operational manual and maintenance manual • Test certificates of 'MOC'	1	20,000.00

		• Calibration certificate(s) traceable to national standard and purchase reference. • Trouble shooting methods • IQ, OQ and PQ documents of the equipments. • Spare parts manual		
17.	**Sifter Sieves**	➢ All sieve size/dimension should be 12" diameter. ➢ Sieves should be in accordance with current ASTM E11 and ISO 3310:1-2000 standards. ➢ Sieves should be made up of stainless steel SS 316 ➢ Should have Inspection and Compliance certificate. ➢ Should have Sturdy joint less rims for excellent fitment. ➢ Should have no crevices to trap sieving material. ➢ Mesh should be evenly tensioned. ➢ Sieves should be free from toxic Lead & Tin metals. ➢ Mesh should be welded-no soldering (lead free). ➢ Test Sieves Of ISO Nominal Aperture Supplementary Sizes R40/3 having the following sizes 2.00 mm,1.70 mm,1.40 mm,1.18 mm,1.00 mm,850 µm,710 µm, 600 µm ,425 µm ,250 µm ,180 µm ,150 µm should be provided.	2 sets	2,000.00
18.	**Weighing Balance 320gm**	➢ Readability : 0.1mg ➢ Maximum Capacity : 320gm ➢ Pan size : 90mm ➢ Weighing units : g, mg, ct, oz, dwt ➢ Chemical resistant metal housing ➢ Glass closed system with automatic internal Calibration ➢ Response time: < 2.5 seconds. ➢ Repeatability: < ± 0.0001 g. ➢ Linearity: < ± 0.0002 g. ➢ It should contains CE and all other international standards ➢ The supplier should provide the following documents to the user • Operational manual and maintenance manual	3	8,500.00

		• SOP for equipment operation • Test certificates of 'MOC' • Trouble shooting methods • IQ, OQ and PQ documents of the equipments. • Spare parts manual		
19.	**Rotavapor (20 Lit.)**	**<u>Rotavapor with complete assembly</u> <u>(reflux condenser, pump, Chiller Rotrary evaporating flask & receiving flask)</u>** • Rotation : 5-150 rpm • Display: Digital display for all working parameters. • Should have both Hand / Motor lift. • Heating capacity : 3500-4000 W • It should have ideal space saving system incorporating all components like, Pump, Chiller & 20 Lit Rotavapor as a single unit with reflux option. • It should have lockable wheels for easy movement **<u>Heating bath :</u>** • Temperature range : Ambient to 180°C • Diameter : Min 400 mm • Volume: Min 24 Lit. • Temperature accuracy : ±1°C • Bath temperature setting : Digital control • It should have easy connection of evaporation flask with snap flange coupling. • Bath lowered in case of power failure: Automatic. • Motorized lifting / lowering of the bath should be possible. • All glass assemblies should be with plastic coating • Vapour temperature probe should be provided as a standard. • The system should be automatically aerated in case of power failure. **<u>Pump</u> :** • Integrated speed control vacuum pump with auto digital control program. • Compatibility with chemicals & condensate. • Ultimate vacuum: < 2 mbar; four PTFE diaphragms. • Voltage : 220-240 V • Suction Capacity : min. 3 m^3/hour	1	60,000.00

		• It should be very quiet & very low vibration • It should have integrated gas ballast for drying the diaphragms during operation ensuring high flow rates • It should be with unique window head which allows visual inspection of diaphragms for checking solvent build up & contamination. • It should have secondary condenser on the vacuum pump. **<u>Chiller</u> :** • Temperature range : -10°C to 40°C with digital control • Temperature stability at 15°C : ±1 or ±2°C • Cooling capacity : 2500 W at 15°C • Pump max. flow rate : 10-30 L/min. • Voltage: 230 V / 50/60 Hz. • Coolant level indicator should be provided • Should be provided with timer **<u>Additional requirements:</u>** • 20 L, 10L, 6L each one rotary evaporating flasks and one 10 L receiving flasks should be provided • All tubing and cables used for installing the instrument should be provided. One set of additional tunings as spare • Safety coated glass assembly for reflux should be provided • Glassware provided should be compatible with oil bath **<u>General:</u>** • CE certification is necessary. • Installation and commissioning of the instrument and training of the technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided.		
20.	**Vacuum Pump**	• Integrated speed control Oil free high vacuum pump with auto digital control display • Should include secondary condenser and air intake separation vessel • Should have excellent compatibility with chemicals and	2	24,000.00

		condensate • Should have excellent ultimate vacuum of less than 2 mbar. • Should have very high suction capacity of min 3.0 m^3/h, with 4 PTFE diaphragms • Integrated gas ballast for drying the diaphragms • Should be very quiet and should give very low vibration • Tubing and cables required for installation should be provided • Extra vacuum tubes for 5 meters should be provided • CE certification is necessary		
21.	**UV chamber for TLC**	**<u>For TLC Documentation</u>** • Should have three lights with different wave length, UV254, UV366 & Visible light • It should have appropriate optical filters to ensure proper UV illumination and also for safety of the user & camera. • It should have uniform illumination to observe the plates under same condition. • Complete dark room to ensure maximum contrast to observe even faintest spot. • It should provide with High resolution Digital Camera to capture the TLC picture	1	2,000.00
22.	**Rheometer**	• Research Grade Rheometer for the visco elastic characterization of pharmaceutical & personal care materials such as creams, gels, suspensions, lotions complex fluids etc. The rheometer should have the capability to operate under both stress control & strain control mode. Necessary temperature control systems such as peltier temperature unit should be included. Necessary geometries such as Cone/plate, Plate/Plate geometries, concentric cylinder should be provided. **The system should have the following minimum technical specifications** • Maximum Torque -200 mN.m • Minimum Torque Oscillation -2N.m • Torque Resolution -0.1 nN.m [1] • Minimum Torque Steady -10nN.m • Minimum Torque Steady CS -0.1 µN.m • Angular Velocity Range CS -0 to 300 rad/s • Frequency Range -7.5E-7 to 628 rad/s • Displacement Resolution -10 nrad • Step Change in Velocity -5 ms • Step Change in Strain - 15 ms	1	80,000.00

		• Motor design -Low inertia Drag Cup • Bearings type Vertical (Thurst)-Magnetic • Lateral (radial) -Dual Air bearing • Normal Force sensor (FRT type) -0.005 to 50 N • Normal Force resolution -0.5mN • Temp Control Peltier Plate -40 to 200 °C **Geometries Required :** • Parallel plate SS: 20mm -1 no • Parallel plate SS: 40mm with solvent trap -1no (sand blasted/serrated) • Parallel Plate SS: 60mm with solvent trap -1 no • Cone/Plate : 40mm 1deg -1 no • Concentric Cylinder -20 to 150 °C -1 no • Solvent trap cover -1 no • Concentric cylinder peltier jacket with concentric cylinder cup with cap and rotor. **Consumables Required** : The supplier should provide the following consumable required for the rheometer. **1.** Poly dimethylsiloxane(PDMS) : 2 oz **2.** High viscosity standard oil ~1100mPa.s (cP) @ 250C **3.** Low viscosity standard oil ~100mPa.s (cP) @ 250C **4**. Filter/Regulator for Rheometer. **Data Acquisition and Instrument control/Operation** • Latest software should provide full control of Rheometer system with following features • Should have real-time wave form monitoring • Should be able to measure raw phase angle at all data points. **The Rheometer must be capable of operating in the following modes:** **1) Oscillation Mode Tests:** **i.** Torque/Stress sweep (linear or log) at single frequency **ii.** Frequency sweep (linear or log) at single torque **iii.** Frequency sweep (linear or log) at single strain **iv**. Strain/angular displacement sweep (linear or log) at single frequency **v.** Temperature sweep at single frequency/torque **vi**. Superimposed stress oscillation and steady shear **vii.** Superimposed strain oscillation and steady shear **viii**. Multiple simultaneous frequencies superimposed on above modes		

		2) Flow Mode Tests: **i.** Controlled stress or torque sweeps. **ii.** Controlled rate (1/s) or speed (rad/s) sweeps. **iii.** Stress stepped flow. **iv**. Equilibrium stress stepped flow (ensures material has time to respond to each level of stress). **v.** Temperature sweeps at constant stress or rate. **vi**. Squeeze flow and pull off. **3) Creep Mode Tests:** **i.** Constant stress creep and recovery. **ii.** Automatic sensing of steady state during creep test. **4) Stress relaxation** All the certified oil with calibration certificate should be provided (from low viscosity to high viscosity) **Data handling in accordance with the technical requirement of FDA regulations 21 CFR part 11**. CE and all other instrument standard certificate are necessary. PC with latest configuration, laser printer and scanner. (Minimum specification-Windows7 operating system ,Intel core 2 duo or higher , 3G RAM , 250GB HDD ,DVD ROM drive ,17" high resolution LCD monitor , Optical mouse ,Key board) should be provided with the equipment. **<u>Optional Accessories Required</u>** High Temperature Enviromental Chamber based on radiation & convection system for extending the temperature range of the Rheometer up to 600deg C for performing polymer melt studies. Necessary geometries & fixtures for melt rheology, thermoset cure studies & torsion clamps for solid samples. High Temp Oven : Ambient to 600deg C Heating Rate :60deg /min Melt Rheology parallel paltes fixture :25mm plates Dispossable plate fixture :25mm & 40mm plates Torsion clamps : rectangular solid bar **<u>General</u>** • Pre installations requirements must be specified. Supplier should have supplied systems of similar applications in Kerala. • Supplier should provide IQ/OQ of the instrument and all other relevant documents. • Installation and commissioning of the instrument and		

		training of to technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. • Compliance statement with proof for specifications of the system should be provided.		
23.	**Weighing Balance (8 ~ 10 Kg)**	• Capacity : 8 ~ 10 Kg • Readability: 0.1 g • Calibration: Automatic Calibration • Linearity: 0.2 g • Repeatability (sd) : 0.1 g • Stabilization time : 1.5 sec • Computer Connectivity: Interface for connection to pc or printer. • GLP/GMP/ISO: Meets requirements of GLP/GMP/ISO9000. Calibration reports can be output with date and time, provided by the build-in clock. • Other Units: gram, milligram, Piece counting, Percentage etc. • Weighing Chamber: Compact body with a spacious weighing chamber • Balance should have overload protection • Balance should have user friendly operation with high contrast display, clear symbols, etc. • Supplier should provide calibration certificate(s) traceable to national standard and purchase reference. • Installation and commissioning of the instrument and training of the technical staff in instrument operation must be undertaken at free of cost.	1	4,000.00
24.	**Vacuum Oven**	• Electronically controlled preheating chamber with two expansion racks made of Aluminum assuring temperature accuracy and reproducible results. • Temperature range : +15˚C above Ambient to 200˚C • Temperature variation : at 100°C : ±1.5K & at 200°C : ± 3 K • Temperature fluctuation : 0.1 K • Heating-up time: at 100°C = 65 min. & at 200°C = 100 min. • Vacuum connection with small flange : 16 (DN mm) • Measuring access port with small flange : 16 (DN mm) • Inert gas connection with flow limiter threads (RP): 3/8. • End vacuum : 0.01 mbar • Leak rate (max. bar 1/h) : 0.01 • Display: digital display (LED) for Main display and Secondary Liquid Cristal Display for Programming. • Should have Digital temperature setting with an accuracy of 1°C.	2	32,000.00

		• Should have Spring-mounted shatter proof Safety glass panel on door • Door Gasket should be made of tempered Silicone • Exterior Dimension: • Width × Height × Depth : ~515 × 655× 500 (mm) • Door Handle : ~ 100 mm • Wall clearance (rear) : ~ 100 mm • Wall clearance (side) : ~ 135 mm • Interior Dimension: • Width × Height × Depth : ~ 285 × 285× 285 (mm) • Interior volume : ~ 22-25 Ltr • Expansion racks (aluminum) (number standard/max.) : 2/5 • Usable space per rack (width × depth) : ~ 234 × 280 mm • Distance between the racks : Min 53 mm • Load per shelf: at least 20 Kg. • Total load: 35-40 Kg. • Electrical Data: • Voltage : 230 V (50/60 Hz) • Nominal power: <0.9 kW. **Pump :** • Valve regulated Oil free high vacuum pump • Should include secondary condenser and air intake separation vessel made of Borosilicate Glass • Max. pumping speed (Nominal air flow) at 50/60 Hz : 2 to 2.5 m3/hour with PTFE diaphragms • Ultimate vacuum : ~ 7 mbar • Ultimate vacuum with gas ballast : ~ 12 mbar • Ambient temperature range (operation) : 10-40°C • Ambient temperature range (storage) : -10 to -60°C • Max. back pressure : ~ 1.1 bar • Motor speed at 50/60 Hz : 1500-1800 min-1 • Inlet & outlet connection : Hose nozzle DN 10 mm • Coolant connection : 2 x hose nozzle DN 6-8 mm • Motor power : ~ 0.18 kW • Should have excellent compatibility with chemicals and condensate • Should be very quiet and should give very low vibration • Tubing and cables required for installation should be provided. **Additional requirements**: • It should have Integrated weekly program timer with real-time function • It should have Precision-adjustable ventilation valve /inert gas valve. • Interior body should be made of extremely corrosion resistant stainless steel V4A (1.4571) and the trays should be easily removable for cleaning purposes by pressing a latch.		

		• All tubings should be made of stainless steel material • It should have Analog pressure guage to displays pressure difference between the inner chamber and ambient pressure • It should have independent adjustable temperature safety device with visual temperature alarm • All required cables and tubing required for installation should be provided • Should have 2 x 24 V DC (max 0.4 A) switching outputs, switched via 2 control contacts in the program editor • Oven should come with RS 422 interface for computer communication. **General:** • Calibration certificates should be provided where ever required • CE certification for oven & pump are necessary • Installation and commissioning of the instrument and training of the technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data & Printed manuals in English should be provided.		
25.	**Pass-Thru Laboratory Refrigerator, (capacity 78 - 85 cu ft)**	• Capacity must be 78- 85 cu ft • Adjustable control range: +2º C to +8º C, • 3 glass doors should have to be provided for three segregated cabin • 3-4 adjustable shelves should be made available for each section • 2 – 4 electrical plug points in each shelf should be made available • Automatic defrost and condensate evaporation • Digital character LCD display microprocessor temperature controller should be made available • Visual High/Low temperature alarm and alarm volume should be made adjustable • Door open alarm should be made visual • Self-closing, key-locked doors should be made available • Interior lights with door-activated ON/OFF switch, independent switch on control panel, adjustable levelling	1	30,000.00

		feet should be made available • Audible and/or visual alarms for power failures and high/low temperature • Automatic condensate removal: no drain lines should be required • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified. Supplier should have supplied systems in India. • Supplier should provide IQ/OQ of the instrument and all other relevant documents. • Installation and commissioning of the instrument and training to technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. • Compliance statement with proof for specifications of the system should be provided.		
26.	**Digital Hot Plate**	• Hotness indicator should be made available to prevent burn hot surface • Exact temperature setting via digital display (LED) • Hot plate platform should be 9 - 10"x 9 - 10" inch (Length x Breadth) • Timer automatically shuts off heating at the end • Ceramic top seamless, reflective white surface aids sample visibility • Temperature range: 20° to < 370° C • Control accuracy with sensor ± 1 °C • Handling Capacity < 20 lb • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified.	1	1,200.00

		Supplier should have supplied systems in India. • Supplier should provide IQ/OQ of the instrument and all other relevant documents. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. • Compliance statement with proof for specifications of the system should be provided		
27.	**Digital pH meter**	• LCD display graphic design and Bench top pH meter • pH Electrode: glass body, refillable, BNC+ pin connectors, 1 - 2 m cable included • High precision pH measurement for continuous 0 -14 pH reading • Automatic Calibration • Simultaneous display of pH and Temperature • Automatic Temperature Compensation • Calibration up to 3 points • Resolution (pH) accuracy should be 0.1/0.01 • Temperature 10 – 100 °C • Temperature compensation : Automatic or manual • Standard calibration solution (Range-pH 4.0, 7.0, 10.0) to be provided with the instrument • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified. Supplier should have supplied systems in India. • Installation and commissioning of the instrument and training to technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. Compliance statement with proof for specifications of the system should be provided	1	4,000.00

28.	**Shaker Incubator**	• Ideal for a different volumes of incubation applications including use with culture flasks (varying volumes of clams should be made available), Petri dishes and staining trays • Digitally display control time counts up during continuous operation • Automated timer at least for 250 hr and continuous operation should be made available • Platform Load Capacity 120 lb • Temperature Range 8° C + Ambient to 60° C • Temperature Uniformity +/-0.5° C at 37° C • Shaking Capacity 8.2 kg / 18 lbs • Shaking Speed 30 - < 500 rpm, +/- 1 rpm • Two stainless steel inside Shelves to be provided (removable and adjustable in different heights) • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified. Supplier should have supplied systems in India. • Supplier should provide IQ/OQ of the instrument and all other relevant documents. • Installation and commissioning of the instrument must be undertaken at free of cost • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. • Compliance statement with proof for specifications of the system should be provided.	1	9,000.00

29.	**Programmable Magnetic Stirrer Hot Plate**	• Number of heating points should be one • Hot Top indicator should be made available warning to prevent burn hot surface • Exact temperature setting via digital display (LED), Separate digital displays for temperature and rpm • Hot plate platform (Length 9 – 12 inch; breadth 9 – 12 inch) • Speed range 100 – < 1500/min • Timer should be made available • Ceramic Top Seamless, reflective white surface aids sample visibility • Temperature range: 20° to 200° C • Efficiency: Heating rate of 1 Lit. of H_2O in H15) should be made available 2 – 3.5K/minute • User defined temperature and/(or) speed memory keys recall settings • Stirring quantity per stirring position for water should be 3 - 5 Lit. • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified. Supplier should have supplied systems in India. • Installation and commissioning of the instrument must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. • Compliance statement with proof for specifications of the system should be provided	2	20,000.00
30.	**Standard Incubator (capacity 4.5 - 5.5 cu ft)**	• Chamber Volume 4.5 - 5.5 cu ft • Temperature Display LCD should be made available • 3 adjustable shelves should be made available • Adjustable Shelves minimum 2 - 3 • Temperature Range + 10° - 65° C • Temperature increment 0.1° C • Accuracy should be available ±1° C • Stainless interior • Timer should be made available for > 120 hr • Two doors (Exterior steel door and interior glass door) should be made available • Body should be made with rust free material • Data handling in accordance with the technical requirement of FDA regulations 21 CFR part 11. • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified. Supplier should have supplied systems in India.	1	10,000.00

		• Supplier should provide IQ/OQ of the instrument and all other relevant documents. • Installation and commissioning of the instrument must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided. • Compliance statement with proof for specifications of the system should be provided		
31.	**ELISA Reader**	• Applications: Absorbance, Flash & glow Luminescence, & Florescence • Wave length – Quadruple Monochromator, Dual excitation monochromator & Dual emission monochromator should be made available • Photodiode, Photomultiplier tube (PMT) & low noise photomultiplier tube (or) photon counting with low dark current PMT detectors should be made available for three different applications • Band width for absorbance & fluorescence should be 5nm, respectively (for excitation and emission) • Xenon lamp for light supply • Wavelength Range 200 - 1000 nm • Wavelength increment: 0.5 nm or less • Read-out Range for absorbance- Up to 4 Abs • Accuracy of absorbance should be < 2% at OD 2 • Sensitivity of florescence should be < 1 pmol/well for fluorescein with 96 & 384 well plate reading • Luminescence sensitivity: ATP – 10nM/well (Glow), 384 well plate ATP - 15 pmol/well (Flash luminescence) • Cross talk for Luminescence should be < 0.02% or less • Dynamic Range: 4 logs or more • Plates - 96-384 well plates • Plate Shaking –Adjustable 3 speeds: low, mid & high	1	36,000.00

		• Linear, orbital and double orbital shaking mode should be made available • Incubation Range - +2° C to 45° C • Measurement Speed: 6 – 10S for 96-well plate; 10 – 60S for 384 well plate • Flexible configurations with ability to read flat-, U-, or V-bottom microplate or 8- or 12-well strip plates • Absorbance should be readable from bottom and top • Reading Option – Micro plate & Cuvette • Dispensers should be made available with the following features o Number of injectors: 2 o Plate formats: 6- to 384-well plates o Volume range: not less than 1-350 µl per stroke, multiple dispense strokes can be programmed o Dispense volume: 1 µl (min) o Dispense increments: > 0.5 µl steps • Memory for 100 or < 100 inbuilt protocols • Analysis software to be supplied with unlimited user system license • Laptop with latest configuration with laser printer (Minimum specification – Windows 8 operating system ,Intel core 2 duo or higher, 3G RAM, 250GB HDD, DVD ROM drive, 17" high resolution LCD monitor, Optical mouse & Key board) • The software should be able to run calculation methods including average, % CV, standard deviation, Z factor, blank correction, dilution correction • Software should also function on curve fit, dose response, kinetic parameters, user defined calculations • Upgrading software and enabling new applications in future should be made possible • CE and/or ISO standard certificate are necessary. • Pre installations requirements must be specified.		

		Supplier should have supplied systems in India. • Supplier should provide IQ/OQ of the instrument and all other relevant documents. • Installation and commissioning of the instrument and training to technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data. Printed manuals in English should be provided • Compliance statement with proof for specifications of the system should be provided.		
32.	**Cold Trap**	➢ Should be able to cool upto -105º C ➢ Should possess perforated side panels for good airflow helping good exchange for refrigeration system. ➢ Should contain quick access front panel for easy maintenance of cooling components. ➢ Should possess 4 L stainless steel collector. ➢ Should possess acrylic acid with two quick- disconnect ID hose, rubber gasket and 1inch thick insulating cover. ➢ Should have facility to connect optional chemical traps to protect vacuum pumps. ➢ Should contain stainless steel drain port with nylon valve and stainless steel plumbing to speed clean up and eliminate need for glass insert with non-corrosives ➢ It should possess rear mounted pop up fuses for equipment protection and resetting after normalisation. ➢ Should contain overall dimension of around 24" wide x 24" deep x 18" high with actual weight of 70 kg. ➢ Should have a facility to convert it into freeze dryer with two port manifold. ➢ Should possess independent ON/OFF power switch and a grounding clip to provide good earthing. ➢ The supplier should provide the following documents to the user • Operational manual and maintenance manual • SOP for equipment operation • Trouble shooting methods • Spare parts manual CE and all other International standard certification	1	12,000.00

33.	**High Vacuum Pump**	• Dimensions (WxDxH): 51.0 x 30.5 x 23.0) • Vacuum: 2 x 10^{-3} mBar (1.5 micron) • 3/4" OD inlet adapter • Should be designed for use with acids and other harsh chemicals including TFA, TFA by-products, acetonitrile, HBe and HNO3 present in samples such as HPLC-prepared and peptide purified materials. • Should have pressure control valve compensates for the different volumes displaced by the two pumps. • Combination pump system should consist of a two-stage rotary vane pump and two-stage, chemical-resistant diaphragm pump. • Low maintenance, longer lasting. • Made of PTFE and other chemical-resistant fluoropolymer components. • Should be environmentally-friendly • Pump oil lasts up to 10 times longer than conventional rotary vane pumps under virtually all conditions. • Fewer oil changes. • Glass separator to capture downstream condensate vapors. • Include one liter bottle of vacuum pump oil, power switch, power cord and plug. The supplier should provide the following documents to the user. • Operational manual and maintenance manual • SOP for equipment operation • Trouble shooting methods • Spare parts manual • CE and all other International standard certification	1	12,000.00
34.	**Digital Hot Plate (Without stirrer)**	• 800 Watt heating power (600 W at 115/100 V) • Hotplate temperature range: 10 - 300 °C • Plate diameter: 150 mm • Should have Extra safety control circuit and hot plate cut-out via two independent temperature sensors • An independent safety circuit with separate circuit switches off the heating if the nominal hotplate temperature is exceeded by 25 °C • Illuminated switch for actual heating condition • Medium temperature control accuracy: ± 1 K	1	1,500.00
35.	**Hydrogenator (High Pressure Chemical Reactor)**	• Should be able to stir Reactor Vessel from 50 ml to 2 L Capacity • Operate up to 10,000 psi (689 Bar / 68.9 MPa) and	1	8,000.00

		350°C • Should have Safety Rupture Disc Assembly • Integrated Controller with Colour Touch Screen • Data Export via a Flash Drive Communications Port • Optional Reagent Addition Modules • Pressure Vessel Sizes should be 50, 100, 300, 500, 1000, 2000 mL • Pressure Vessel should be Bolted Closure • Stand should be corrosion resistant • SS316/316L Stainless steel sheathed ceramic heater • Closed Loop Temperature Control • Closed Loop Agitator Speed Control • Pressure Indication (including transducer) • Over temperature Limit Control • Ramp Soak Programming of Temperature and Speed (5 ramp/soak segments) • Temperature, Speed and Pressure On-Screen Plotting • PID Auto-tuning • Temperature, Pressure and Speed Alarms with Alarm History Storage • Agitator Drive Assembly speed should be 0-2500 RPM		
36.	**Oil Bath**	• Capacity: 2 L • Should have double walled construction • Outer Body should be constructed with 1.0 mm thick, S.S. sheet • Should be Ambient to 400° C • Temperature accuracy: + / - 1 • Resolution :1^0C	1	2,000.00
37.	**Heating Mantle**	• Capacity: 100, 250, 500, 1000, 2000 mL • Temperature range: up to 400 °C • Should have stirring facility with heating (Stir Mantle or rotamantle) • Temperature accuracy: + / - 1	01 each	3,000.00
38.	**Hot Air Oven**	• Capacity (Approximately): 220 L • Should have flame proofed body • Working temperature range : ambient +50 °C to 300 °C • Dimensions (Approximately) Internal Dimensions (W x D x H) : 1000 x 750 x 600 mm; 39.4” x 29.5” x 23.6” • Insulation: Glass wool/Equal material. • Number of Shelves required Standard: 3 Maximum: 6 • Load Per Shelf: 30 Kg (66 lbs)	1	3,000.00

		• Max. Total Load: 60 Kg (132 lbs) • Electrogalvanised steel body with white oven-baked epoxy power-coated finish. • Stainless steel, grade 304 chambers. • External Power Supply - 220-240V, AC, 50Hz, 1Ø • Alarm and safety function should be provided • Oven Power/Amp: 2140 W/ 9.4 A • Heating System-Forced Air circulating system. • All International standard Compliance to be provided. • CE Certification is required.		
39.	**Hydrogen Cylinder**	• Capacity: 100 L Gas • Filling Pressure : 140-150 Kg per Sq. cm. • Wall thickness of Cylinder : 5.7 ± 0.3 mm. • Length of cylinder : Not less than 1200mm. (Without valve & Cap) Not more than 1250 mm. • Nominal diameter : 230-235 mm. Of the cylinder • IS Specification : The Gas Cylinder should conform to for cylinder IS:7285/2004 • Valve Specification : It should be brass forged valve with left hand thread having steel spindle. Valve should conform to IS: 3224/2002. • Test Certificate required from authorities.	1	1,000.00
40.	**Fume Hood**	• Normal size: 1.5-1.8 meter • External Dimension (WxDxH): 60" x 35"x 59" • External Dimension (WxDxH): 51" x 26"x 48" • Should have one exhaust collar • Should have five in-built vertical stand rods for holding clamp • Exhaust Volume: Fare velocity= 0.5m/s (100fpm); Sash opening= 457mm (18")	1	14,000.00
41.	**Overhead stirrer**	• Stirring capacity: up to 5 L • Should be able to stir up to 25000 mPois viscous solution • Vendor has to provide air proof set up for 19, 24 and 29mm sized neck.	2	2,000.00
42.	**Spray Dryer**	**<u>A complete set of spray dryer to evaporate both aqueous and organic solvent with flame proof constructions.</u>** • Air Flow Max. : 80 - 100 cu. m. /hr. • Compressor Pressure : 2-3 bar • Compressor should be included • Evaporation Capacity : 1.0 Litrs / hr. (Water) • Heating Power : 2-4 kW • Temperature : 250-300°C • Spray co-current nozzle : 0.5 to 0.7 mm • Temperature Controller: PID with bright display.	1	10,000.00

		• Voltage : 230-240 V 50/60 Hz • Dimensions (L X W X H) : ~50 x 60 x 100 cm. • Material of Construction : ▪ Product contact parts & main stand : SS 316L ▪ Heating Apparatus : Borosilicate glass ▪ Interconnecting parts : Teflon, Silicate • It should have Flame Proof construction to handle organic solvents other than water. • It should be applicable to heat sensitive products • Use of inert process gas or compressed air as the drying medium. • It should also be suitable for use with nitrogen for products dissolved in organic solvents. • It should be easy to dismantle for cleaning. • Installation and commissioning of the instrument and training of the technical staff in instrument operation must be undertaken at free of cost. • Original brochures, Original specification sheets from equipment manuals directly obtained from the principal manufacture of the quoted model must be enclosed along with supporting data & Printed manuals in English should be provided.		
43.	**Lab Model Tablet Coating Machine**	➢ Should be suitable for Aqueous Film Coating, Non-aqueous organic solvent based Film Coating and Enteric Film Coating of tablets. ➢ Should provide 2 pans with capacity to handle 500g - 1 kg, 2 - 3 kg tablets. ➢ Should be GMP model. ➢ All motors should be made of flame proof. ➢ Should have Exhaust air dust collection system with wet scrubber. ➢ All contact parts should be made of AISI 316 stainless steel. Should comprise of ➢ Pan cabinet ➢ Spray system equipped with automatic spray gun and peristaltic pump head with FLP geared motor and VFD. ➢ Spray arm header should be adjustable. ➢ Jacketed liquid vessel with pneumatically driven stirrer driven by pneumatic motor (2 - 4L) ➢ Peristaltic Pump should be mounted on the trolley along with liquid vessel. ➢ Hot air unit with pre and intermediate filter, steam heating coil, suitable blower with FLP drive motor	1	30,000.00

		and outlet damper, dehumidification coil, etc. Enclosed in A S.S. 304 cabinet ➢ HEPA filter in S.S. 304 enclosure ➢ Exhaust cum booster fan with FLP drive motor and vibration pad should be provided. ➢ CIP systems including high pressure pump and jet nozzles. ➢ PLC based control panel having all the necessary components such as CPU having inbuilt digital input output, analogue module, necessary dc power supply, battery module, communication port etc for logical control of the coating process. The control system will also have colour touch screen HMI and 80 column printer. ➢ The control system should be PLC based for automatic control of coating parameters during the coating process. ➢ The PLC should have in-built alarm annunciator as well as necessary interface for printer. ➢ All pneumatic components such as solenoid valves, filter, pressure regulator etc should be provided. ➢ Uncoated tablets should be loaded through contained charging facility with valves or actuators. ➢ Coated tablets should be unloaded through diverter assembly which ensure assured discharge of tablets. ➢ M.S epoxy coated packed bed spray tower type wet scrubber with water circulation pump. ➢ M. S Cartridge type bag filter with reverse pulse jet cleaning device. ➢ M.S. Exhaust cum booster blower made of mild steel (with epoxy coating) with flame-proof drive motor ➢ HEPA filter with prefilter enclosed in an epoxy coated M.S. Casing for final cleaning of exhaust air ➢ Flow measurement of inlet drying air using necessary instruments. ➢ Audio visual alarm annunciation to be given when pressure drop across the HEPA filter exceeds set point. ➢ Provision of display and alarm through HMI to ensure the presence of negative pressure inside the pan cabinet by using necessary instruments including		

		differential pressure transmitter. ➢ Automatic on/off for inlet and exhaust air volume control from HMI ➢ Pressure transmitter for display of atomization air pressure and alarm when the atomization air pressure falls below the set point. ➢ Indication and remote control of atomization air pressure by use of analogue pressure regulator and pressure transmitter. The atomization pressure will be controlled from the HMI ➢ VFD for inlet and exhaust blower motors ➢ Suitable dehumidifier having chilled water Coil (copper tube with aluminium fins), moisture separator housed in S.S. 304 enclosures. The dehumidifier will be supplied with necessary chilled water inlet and outlet connections with modular valve, etc. The absolute humidity of the air after the dehumidifier will not exceed 70 grains per pound. ➢ All the necessary accessories and its spare parts required for basic functioning should be provided. ➢ The supplier should provide the following documents to the user • Operational manual and maintenance manual • SOP for equipment operation • Test certificates of 'MOC'. • Calibration certificate(s) traceable to national standard and purchase reference Catalogue number for the various instruments present in the system. • Trouble shooting methods. • IQ, OQ and PQ documents of the equipments. • Spare parts manual		
44.	**Bio Gas Plant / Bio Gas Generator (20 Kg)**	• Design ,supply , erection & commissioning of 20 kg Bio-gas plant / Bio gas Generator, chimney ,3mtrs above the ground level as per the above specification and scope of supply along with flanges ,monkey ladder , rain hood, heat & weather resistant painting and erecting with the approved drawings & certification from Pollution Control Board.	01	6,000.00

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

Minimum Eligibility Criteria for qualifying in the Technical Bid

PRE-QUALIFICATION CONDITIONS
(MINIMUM ELIGIBILITY CRITERIA)

1. Name of the Organization :

2. a. Are you a manufacturer? : Yes/ No

b. Are you an authorized agent? : Yes /No

c. In the case of authorized agent , following documents from the Principal should be enclosed
i. Letter confirming the agency from the Manufacturer valid for ……..

ii. Letter from the manufacturer that they also agree to abide by all the terms and conditions of this tender.

3. What is your annual production/ process capacity? :

4. Do you have in house testing facility to check HLL's parameters? : Yes/ No

5. Do you have previous experience : Yes/No

All the information provided herein is true and correct.

Place: Name and Signature of the Tenderer
Date: (With Office Seal)

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

Minimum Eligibility Criteria for qualifying in the Technical Bid

QUALIFICATION CRITERIA

a) The firm should have proven and demonstrable experience in supply and installation of packages (equipments) in the field of biopharmaceuticals / biologics / vaccines for the last five years.

b) The firm must have supplied, installed and commissioned at least 5 such equipments during the last three years in biopharma / vaccine production units.

c) Their Client's list must include atleast five approved facilities from national regulatory bodies (Schedule M) / international regulatory bodies (Like USFDA, UK MHRA, TGA, etc.).

d) Net worth of the company should be positive during the last three financial years.

e) What is your average annual invoiced sales value (based on past previous 5 year's records) for each of the type of equipments under consideration.

Equipment Name : _____
(If more than one equipment, enclose the same separately)
(Documentary evidence (duly signed & stamped) must be enclosed.

a) Year 1 : _____
b) Year 2 : _____
c) Year 3 : _____
d) Year 4 : _____
e) Year 5 : _____

(f) Annual Turnover of the Firm/ company:
(Must be minimum 10 times that of the equipment cost under consideration.)
(Documentary evidence (duly signed & stamped) must be enclosed.

a) Financial Year 2010-2011 : _____
b) Financial Year 2011-2012 : _____
c) Financial Year 2012-2013 : _____

Bidders are to submit copy of valid current Income Tax Return submitted, Sales Tax Registration failing which their offer may be liable to be rejected.

Experience:

Past Project Experience:

Firm must have executed under their Company/ firm's name at least 5 (Five) similar type of order during the last three calendar years. Client's list must include atleast five approved biopharma/vaccine manufacturing facilities from international regulatory bodies (Like WHO, USFDA, UK MHRA, TGA, etc.,)

SN	Year awarded	Project Name	Equipments Supplied	Contract Value (INR)	Client Name & Reference (Contact details)	Facility Approved by: (Name of approving agency)
1						
2						
3						
4						
5						

Details of Ongoing project

SN	Year awarded	Project Name	Equipments Supplied	Contract Value (INR)	Client Name & Reference (Contact details)	Facility Approved by: (Name of approving agency)
1						
2						
3						
4						
5						

* Documentary evidence of work completion certificate duly signed & stamped must be enclosed including the evidence of the facility having approved by regulatory agencies.

Place:
Date:

Name and Signature of the Tenderer
(With Office Seal)

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

QUESTIONNAIRE

(General information of the tenderer)

1. Name & Address of the tenderer with :

   (a) Telephone No.
   (b) Fax No.
   (c) E – mail Address
   (d) Name of the contact person
   (e) Whether proprietor / partnership / Limited company.

2. Are you a manufacturer, authorized Dealer or any other? If authorized agent, A copy of the original letter from the Manufacturer / Principal, duly attested, Should be furnished conforming the agency :

3. If your manufacturer, how many years have you been in the business of manufacturing of the equipment as per the HLL specification enclosed :

4. What would be the minimum period required to deliver the machine from the date of confirmed Purchase order? :

5. Have you been a tenderer / manufacturer, if so details of the name, address, quantity and values of orders received and executed during last three years? (Attach separate sheet) :

6. What is your Annual Turn Over during the last 3 years? :

7. **What is your :-** :
   a) CST No :
   b) VAT NO /TIN NO :
   c) Central Excise Registration No: :
   d) PAN No :

8. **Bank details for returning of EMD**

(Indian Tenderer)

Name of the tenderer as per Bank Account	:
Name of the Bank	:
Branch Name	:
Acount No.	:
IFSC Code	:

(Foreign Tenderer)

Name of the tenderer as per Bank Account	:
Name of the Bank	:
Branch Name	:
Acount No.	:
ABA	:
SWIFT	:

9. Any other details :

All the information provided herein is true & correct.

Place: Name and Signature of the Tenderer
Date: (With Office Seal)

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

TERMS & CONDITIONS

1. The tender should be completed in all respects; incomplete tenders are liable to be rejected.

2. Unsealed tenders received are liable to be rejected and this will be at the sole risk of the tenderers.

3. Supply: The successful tenderer will have to done the supply and sucessful working within the stipulated delivery time mentioned in the Purchase order. As a token of acceptance, the tenderer should submit the duplicate copy of purchase order with signature of authorized person and offical seal with in 07 working days.

4. Period of validity of tender: The tender will remain open for acceptance for 90 days from the date of opening of the tender.

5. Termination of Contracts: i) In case, after issue of a firm order, the successful tenderer fails to supply the item as per the specified quality and the required quantity according to the Delivery Schedule as given in the purchase Order, and even fails to supply the equipment within the extended period if any given in writing by HLL Lifecare Limited, Thiruvananthapuram, it will be within HLL's full rights to terminate the contract by giving a notice of 21 days in writing sent by Registered courier to the address given in the tender submitted or to any other address which may be recorded in the office at the request of the tenderer. The period of 21 days will be counted from the date of issue of the notice.

ii). In such cases, the Security Deposit of the successful tenderer will be refunded soon on getting a demand from the tenderer. The HLL Lifecare Limited, will not be liable for payment of any compensation for any loss that the contractor may be put to or alleged to have been put to on account of such termination.

6. In case of notice sent by registered post/ courier to the address recorded in the office as per clause 5 (i) & (ii) is returned undelivered with the remark addressee not found or addressee refused to accept, the notice shall be deemed to have been served and the termination will automatically take effect from the 22nd day of dispatch of the notice.

7. HLL Lifecare Limited, will have the full right to reject any or all the tenders without assigning any reason whatsoever. The HLL Lifecare Limited, also reserves the right to award the contract with more than one contractor.

8. PRICE

Price: The tenderer has to quote the rate for supply of the item as per unit as given in the tender. Statutory levies if any such as Excise Duties, Sales Tax, VAT/CST etc. should be shown separately. Rates quoted should be strictly as per HLL's format- Schedule-G (Price Bid)

Price variation: Rate quoted shall be firm and valid for a period of one year from the date of opening of the tender. The benefit of reduction of statutory levies should be passed on to the purchaser.

9. Bid Opening:

The bids shall be opened on date and time as specified, in the presence of such bidder(s) or their representatives who may be present. The bidder(s) or the authorized representative(s) who are present shall sign an attendance register. The authorized representative(s) of the bidder(s) shall submit letter(s) of authority before they are allowed to sign the attendance register and participate in the bid opening.

The Technical Bid will be opened on the prescribed tender opening date and time. The Price Bid will be opened on a later date, which will be made known to all qualified bidders (Technically qualified), after technical bid evaluation has been completed.

The bids, which are found as substantially responsive in the technical evaluation and comply with the entire requirement, shall only be considered for Price Bid opening. The Price Bid (price schedule) submitted by such tenderers whose technical bid have been considered as technically unacceptable on the basis of evaluation, will not be opened.

10. RELEASE OF PURCHASE ORDER

The purchaser may consider placement of a purchase order for commercial supplies on those bidder(s), whose offers have been found technically, commercially and financially acceptable.

During the period of contract, if so desired by the purchaser, the tenderer (s) premises shall be visited by the purchaser for inspection/evaluation.

11. PAYMENT TERMS:

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

a) Domestic supply

1) 100 % of the contract value shall be paid on receipt of goods in good condition as well as proper installtion and upon the submission of the following documents within 30 days.

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
(ii) Acceptance by concerned authority of HLL Lifecare Limited.
(iii) Two copies of packing list identifying contents of each package;
(vi) Installation certificate
(v) A performance bank guarantee (as per HLL format) of 10% of the contract value (Including all taxes, duties, transportation etc.) and confirmationa of bank guarantee from the respective bank. The validity should be 12 months from date of installation.

or

2) As pe the request from the tenderer, 90% of the contract value shall be paid on receipt of goods in good condition as well as proper installtion and upon the submission of the following documents within 30 days.

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
(ii) Acceptance by concerned authority of HLL Lifecare Limited.

(iii) Two copies of packing list identifying contents of each package;
(vi) Installation certificate
(v) Balance 10% contract amount after providing Performance bank guarantee (valid for 12 months from date of installation) in th HLL prescribed format and the confrimation of PBG from the respective bank or if 10% PBG is not submitting the amount will be paid one year after installation.

3) For 100% advance payment of the contract value, the tenderer should provide 100% supply bank guarantee prescribed in HLL format along with 10% PBG of the contract value (Including all taxes, duties, transportation etc.) & confirmation from respective bank and perform invoice. The validity of the supply bank guarantee should be minimum 05 months or upto installation period and validity of PBG should be 18 months.

b) Import supply

Payment against Imported goods shall be made in the currency as specified in the price bid and contract in the following manner:

1) For 100 % payment of the contract value (Including all taxes, duties, transportation, discounts etc.) shall be paid on receipt of goods in good condition as well as proper installtion and upon the submission of the following documents within 30 days.

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Copy of the Bill of Lading/ Airway bill.
(iii) Four Copies of packing list identifying contents of each package;
(iv) Manufacturer's/Supplier's warranty certificate;
(v) Certificate of origin by the chamber of commerce of the concerned country;
(vi) Acceptance by concerned authority of HLL Lifecare Limited.
(vii) Installation certificate.
(viii) A performance bank guarantee (as per HLL format) of 10% of the contract value (Including all taxes, duties, transportation, discounts etc.) and confirmationa of bank guarantee from the respective bank. The validity should be 12 months from date of installation.

2) For 90% payment of the contract value (Including all taxes, duties, transportation etc.) as per the request from the tenderer shall be paid on reciept of the above mentioned doucments except 10% performance bank guarantee. For the balance 10% of the contract value after providing Performance bank guarantee (valid for 12 months from date of installation) in th HLL prescribed format and the confrimation of PBG from the respective bank or if 10% PBG is not submitting the amount will be paid one year after installation.

3) For 100% advance payment of the contract value, the tenderer should provide 100% supply bank guarantee prescribed in HLL format along with 10% PBG of the contract value (Including all taxes, duties, transportation etc.) & confirmation from respective bank and perform invoice. The validity of the supply bank guarantee should be minimum 05 months or upto installation period and validity of PBG should be 18 months.

12. WARRANTY

Period of warranty shall be 24 months from date of installtion of equipment as certified jointly by the tenderer and the Purchaser.

During Warranty period, the supplier is required to visit consignee's site at least once in 3 months commencing from the date of the installation for preventive maintenance of the goods.

The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier after the completion of warranty period.

13. COMPREHENSIVE MAINTENANCE CONTRACT

The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service / operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 3 years on yearly basis for complete equipment and Turnkey (if any).The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service / operational manual, but at least once in six months during the CMC period.

The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.

Cost of CMC will be added for Ranking/Evaluation purpose.

All software updates should be provided free of cost during CMC

14. SPARE PARTS

If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and

ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser/Consignee promptly on receipt of order from the Purchaser/Consignee.

15. Insurance

The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

i) In case of supply of domestic goods on consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the consignee.

ii) In case of supply of the imported goods on CIP (Carriage and Insurance Paid) Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will get extended by the supplier at their cost till the successful installation, testing, commissioning, qualification and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

16. TECHNICAL EVALUATION OF FIRST STAGE BIDS (Techincal bid opening)

The purchaser will carry out a detailed evaluation of the bids in order to determine whether the technical aspects are substantially responsive to the requirement set forth in the bidding documents. In order to reach such a determination, the bidder will examine the information supplied by the bidders and other requirements in the bidding documents, taking into account the following factors.

Overall completeness and compliance with the Technical Specification, quality function and operation of any process control concept included in the bid.

For any clarification regarding technical aspects, specificatin of the equipment or queries with technical bid will be commuicate through e mail which has to be clarify atleast within time. Minimum time limit is 24 hours from e mail / fax sending time . If the clarification has not received (through e mail / fax) within 24 hours, it should be considered as disqualified.

Any other relevant technical factors that the bidder deems necessary to take into consideration. Any deviation to the contractual provisions stipulated in the bidding documents should be mentioned in the technical bid document.

17. OPENING AND EVALUATION OF SECOND STAGE BIDS (Price bid opening)

The purchaser will open the price bids of only those who qualify in the Technical Bid evaluation. The venue, date and time of opening of price bids will be intimated to the technically qualified bidders atleast before 24 hours through e mail.

The bidder's names, the bid price and any such other details as the purchaser considers appropriate, will be announced by the purchaser at the price bid opening.

Bids not opened and read out at bid opening shall not be considered for further evaluation, irrespective of the circumstances.

18. PURCHASER'S RIGHT TO ACCEPT ANY BID AND TO REJECT ANY OR ALL BIDS

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds of purchaser's action.

19. OPERATIONAL ACCEPTANCE:

Performance Test: The performance test shall be conducted by the tenderer during the commissioning of the facilities to ascertain whether the facilities can attain the functional guarantees.

Operational Acceptance: Operational Acceptance shall occur in respect of the facilities when the performance test has been successfully completed and the functional performance is met.

20. Mode of Transport:

a) Transportation of domestic goods including goods already imported by the tenderer to be done by the tenderer himself and the goods to be delivered at the site of the consignee at his own risk and cost.

b) Instructions for transportation of imported goods offered from abroad: The tenderer shall not make part-shipments and/or transhipment without the express/prior written consent of the purchaser. The tenderer is required under the contract to deliver the goods under Delivery Duty Paid (DDP) at consignee site.

c) **Despatch documents like delivery note/ challan, packing list and invoice should** be intimated immediately with the LR No/Shipping Bill No/Air way Bill No/Bill of Lading etc.

21. The jurisdiction of any disputes, suits and proceedings arising out of this tender shall be only in the courts of Thiruvananthapuram, Kerala State, India.

22. "Any disputes or difference whatsoever arising between the parties out of or relating to the construction, meaning and operation or effect of this contract or the breach thereof shall be settled by arbitration in accordance with the rules of arbitration of the Indian Council of Arbitration and the award made in pursuance thereof shall be binding on the parties" in case the matter is referred for arbitration.

23. The decision of HLL will be final and no correspondence on this shall be entertained.

24. THERE WILL NOT BE ANY POST TENDER NEGOTIATION EXCEPT WITH THE FIRST LOWEST RESPONSIVE BIDDER.

HEAD(R&D)
Ph No. : +91 471 277 4700
Fax No.: +91 471 277 4707
Email : crdc@lifecarehll.com

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

INDEMINITY CLAUSE:

If the supplier fails to execute the order within the time prescribed for the delivery of goods ordered or violates or infringes the existing rates as agreed to as mentioned in the purchase order, the supplier shall and will indemnify the company against all loses or damages whatsoever to be incurred or sustained including the legal cost or expenses incurred by the company by reason of non-delivery of equipment at agreed quantity and rate with in the time specified in the purchase order. The company will initiate legal action if the supplier fails to execute the purchase order as per the schedule in the purchase order for the actual loss suffered. Responsiveness of the Bid shall be at the discretion of HLL.

The supplier shall have no right to change the conditions stipulated in the Purchase order.

Bid pronounced Non Responsive by HLL shall be summarily rejected.

The decision of HLL will be final and no correspondence of this shall be entertained.

We have read and understood the above conditions and agree to abide by the same.

Place:
Date:

Name and Signature of the Tenderer
(With Office Seal)

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

DECLARATION

We confirm having read and understood all the specifications, instructions, forms, terms and conditions and other requirements of the above tender (both expressed and implied) in full and that we agree to abide by all without any deviation.

Seal of the Tenderer

Signature
Name and Address of the Tenderer

HLL LIFECARE LIMITED
(A Government of India Enterprise)
CORPORATE R & D CENTRE,
AKKULAM, SREEKARIYAM P.O,
THIRUVANANTHAPURAM-695017
Email: crdc@lifecarehll.com
Website: www.lifecarehll.com
PH: +91 471 277 4700
FAX: +91 471 277 4707

INVITATION FOR BIDS
(PRICE BID)

FOR

Supply, Installation and Commissioning of various Equipments
Quantity: Mentioned along with equipments

AT

CORPORATE R & D CENTRE,
HLL LIFECARE LIMITED,
AKKULAM, SREEKARIYAM P.O.
THIRUVANANTHAPURAM – 695 017

HLL LIFECARE LIMITED
Corporate R & D Centre,
Akkulam, Thiruvananthapuram - 695017

Tender No.: HLL/CRD/PUR/TENDER/2013-14/10

A. Part A – _____

SN	Item Description	Amount (Rs.)
i.	Total Basic Price	
ii.	Excise Duty	
iii.	Taxes	
iv.	Others if any	
	Total (Rs.)	

**** Detailed split up rates should be attached seperately**

VALIDITY: ONE YEAR FROM THE DATE OF OPENING OF PRICE BID

Statutory levies if any:
Any other Remark (s):

Certified that the rate quoted will hold good for one year during which period no upward revision will be asked for.

NAME OF Tenderer:_____

Place:
Date:

Address and Signature of the Tenderer
(With Office Seal)