

## MINUTES OF THE MEETING

### PRE BID MEETING OF TENDER DOCUMENT FOR SUPPLY, INSTALLATION, COMMISSIONING & VALIDATION OF LAB EQUIPMENT (PHASE-II) AT IVC, CHENGALPATTU

**Document No. :** NPI-120310-EQP-S1-TD-21 Dated 18.03.2016

**Venue :** HLL Biotech Limited, Chennai

**Date :** 04.04.2016 – 07.04.2016

**Project :** Integrated Vaccines Complex, Chengalpattu

**Attendees :** See attached list of attendees

**Issued by :** Mr. Suresh S (Sr. Manager –Procurement)

**Issued on :** 15.04.2016

**Issued from :** HLL Biotech Limited, Chennai

Agenda	
1.	Pre-bid Meeting of Tender for Lab Equipment for IVC, Chengalpattu

Clarification on Commercial Queries	
1.	<p><b>Terms &amp; Conditions</b>  <b>Clause: 6</b>  <b>Page 14/105.</b>  <b>Tendering Expense and Tender fee</b>  <b>Tender Cost/Tender fee:</b> The tenderer should submit the tender fee of Rs.1, 050/- (Inclusive of Sales Tax).</p>
2.	<p><b>Page 5/105 &amp; 105/105</b></p> <p>Closing date &amp; time for receipt of Tender :  19.04.2016 – 22.04.2016 @ 10:30 Hrs</p> <p>Time and date of opening of Techno-Commercial Bids : 19.04.2016 – 22.04.2016 @ 11:00 Hrs</p>
3	<p><b>Page 105/105</b></p> <p><b>SCHEDULE OF FISCAL ASPECTS</b>  <b>Warranty Period :</b>  12 (Twelve) months from the date of Completion.</p>
4	<p><b>Notice Inviting Tender,</b>  <b>Price Schedules(Domestic, Import &amp; AMC)</b></p>

**Tendering Expense and Tender fee**  
**Tender Cost/Tender fee:** The tenderer should submit the tender fee of Rs.3, 150/- (Inclusive of VAT).

Closing date & time for receipt of Tender :  
03.05.2016 – 06.05.2016 @ 10:30 Hrs

Time and date of opening of Techno-Commercial Bids : 03.05.2016 – 06.05.2016 @ 11:00 Hrs

Detailed Bid Submission Closing Date Schedule wise is given in "NIT, Price Schedules, List of Requirement" attached to this MOM.

**Warranty Period :**  
12(Twelve) months from the date of Completion of the project (IQ, OQ, FAC) or 18(Eighteen) months from the date of delivery of materials at site whichever is earlier.

Revised NIT, Price Schedules (Domestic, Imports & AMC), List of Requirements attached to this MOM.

Schedule No	CLARIFICATION ON DATA SHEET	
<b>1</b>	<b>INCUBATOR</b>	
	Specific revision in the datasheet	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	3.9. Display Unit – LCD	Digital display
	5.4. RS-232 Computer Interface allows remote data logging and monitoring of the system	RS-232/Better Computer Interface allows remote data logging and monitoring of the system
	5.6. Temperature mapping to be provided at the time of installation	Temperature mapping with minimum 4 sensors to be provided at the time of installation
	<b>BOD INCUBATOR</b>	
	Specific revision in the datasheet	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	3.7. Display Type – LED/LCD Display	Digital
	5.1. Temperature mapping to be provided at the time of installation	Temperature mapping with minimum 4 sensors to be provided at the time of installation
<b>2 &amp; 3</b>	<b>DEEP FREEZER (LOW TEMP)</b>	
	Specific revision in the datasheet	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	2.3. G1 DPF (02) 500 L (minimum) Vertical	G1 DPF - 400 L (minimum) Horizontal
	3.13. Control & Display – Touch Key pad with LED Display mounted in the Door or on top of the door	Touch Key pad with Digital Display mounted in the Door or on top of the door
	3.21. Total Quantity – 7 Nos	7 Nos – Vertical Deep freezer 1No – Horizontal Deep freezer
<b>4</b>	<b>Water Bath</b>	
	Specific revision in the datasheet	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	3.10. Temperature uniformity - $\pm 0.1^{\circ}\text{C}$	Temperature uniformity $\pm 0.3^{\circ}\text{C}$
<b>5</b>	<b>ELISA READER</b>	
	Specific revision in the datasheet	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	3.1. Microplate Type – 96/384 WELLS	Microplate Type – 96 & 384 WELLS
	3.3. Visible Absorbance – 200 nm to 999 nm	Visible Absorbance – 230 nm to 999 nm

	3.5. Wavelength Range – 200 nm to 999 nm	Wavelength Range – 230 nm to 999 nm
	3.9. Photometric method – Single and Dual wavelength	Photometric method – Single or Dual wavelength
<b>5</b>	<b>ELISA Plate Washer</b>	
	Specific revision in the datasheet	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	3.1.Manifold – 8 and 12 Way	Manifold – 8 or 16 Way
	3.2. Washing wells - must be suitable for washing all 96/384 wells of different bottoms – Flat, round bottmed,U or Vshapes.Must also be programmable to wash particular Row/Columns	Washing wells - must be suitable for washing all 96 and 384 wells of different bottoms – Flat, round bottmed,U or Vshapes. Must also be programmable to wash particular Row/Columns
	3.8. Pump – Vacuum /Peristaltic	Pump – Vacuum /Peristaltic/Syringe
	5.10 – 8 and 12 Channel autoclavable adaptors ( For filling and washing) shall be provided	8 or 16 Channel autoclavable adaptors ( For filling and washing) shall be provided
<b>6</b>	<b>Weighing Balance</b>	
	Please refer file “Weighing Balance” attached to this MOM.	
<b>7</b>	<b>Micro Weighing Balance</b>	
	Micro weighing Balance is required with printer.	
<b>8</b>	<b>UV - SPECTROPHOTOMETER</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.3. Spectrum band width – 1nm to 1.5nm	Spectrum band width – 1nm to 1.5nm or better
	3.19. Photometric Accuracy - $\leq \pm 0.005$ Abs at 440.0,465.0,546.1,590.0, and 635.1 nm Abs (NIST 930e), - $\leq \pm 0.01$ Abs at 235,257,313,350,430nm ( potassium dichromate, EP Method).	Photometric Accuracy - $\leq \pm 0.005$ Abs at 440.0, nm Abs (NIST 930e), - $\leq \pm 0.01$ Abs at 235,257,313,350,430nm ( potassium dichromate, EP Method)
<b>9</b>	<b>Magnetic Stirrer with Heating</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.3. Features –Flat surface LED Display	Features - Flat surface
	3.7.Display – LED Display	Display - Digital Display
	4.1. Top Plate – SS304;Flat surface	Top Plate – SS304 / Glass ceramic, Flat surface
<b>9</b>	<b>Magnetic Stirrer without Heating</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment

10	<b>Data Sheet point</b>	<b>Modified as</b>
	3.3. Features –Flat surface ,for 20L capacity LED Display	Features –Flat surface , for 20L capacity
	<b>pH &amp; Conductivity meter</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.4. Display Type – pH,Temperature,4 digit LCD with backlight	Display Type – pH, Temperature, Digital display
	3.9. Quantity – 4 nos	pH meter – 4 Nos Conductivity meter Quantity - 3 Nos
	5.5. Readymade buffer solution of 4,7,10 to be provided one set	Readymade buffer solution for pH meter of 4,7,10 to be provided one set (500ml each) and for conductivity meter 87µS and around 111 mS (500ml)
	5.9.Spare pH electrode to be provided	Spare probes for pH and conductivity meter should be provided
	9.5.NPL traceable Calibration certificate and calibration procedures	NPL/NIST traceable Calibration certificate and calibration procedures
	<b>Vortex Mixer</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.3. Speed Range – 100 to 3200 rpm	Speed Range – 100 to 2500 rpm
	4.1. Main body – Nitrile rubber	Main body – cGMP Complaint
	4.2. Head - Polyethylene	Head – Polyethylene/Nitrile rubber
12	<b>Colony Counter ( Automatic)</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.10. Plate formats – Plates up to 50 - 90 mm	Plate formats – Plates up to 55 - 90 mm
13	5.2. CCD Camera with Digital Zoom	CCD/C MOS Camera with Digital Zoom
	<b>Ultrasonic Bath</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.2. Display – LCD/LED	Display – Digital
	4.2. Inner Chamber – Stainless Steel	Inner Chamber – Stainless Steel/GLP material
	<b>Air Sampler</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
14	<b>Data Sheet point</b>	<b>Modified as</b>
	3.4.Quantity – 12 Nos	Quantity – 9 Nos
	3.9. Display – LCD display with alphanumeric key pad	Display – Digital display
	3.16. Software compliance -21CFR part11 compliance	Software compliance – Not mandatory

15	<b>5.9. Multiple language choice</b>	<b>This point to be removed</b>
	<b>Laboratory Animal Anesthesia System</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	3.1. Model: cGMP (Compact and Versatile) (Table top or mobile mode)	Table top or mobile
	3.3. Relative humidity : NMT 55 %	This point to be Deleted
	3.4. Oxygen flush volume: 15-35 liters per minute @ 55 psi.	Sufficient to flush out anesthetic agent from Chamber
	3.6. Gas pressure requirements: 50-55 psi.	This point to be Deleted
	3.8. Oxygen flush : Plunger actuated, Spring return volume	This point to be Deleted
	3.10. Dimension (WDXH) : Vendor to specify	Chamber Dimension (16-18 L X 8-12 W X 10.5 -12 H) Inches or vendor to specify
	4.1 Body frame : c GMP Compliance	This point to be Deleted
	4.2. Valves : c GMP Compliance	This point to be Deleted
	4.3. Bolts and screws : Stain-less steel	This point to be Deleted
	4.4. Vaporizer : SS	This point to be Deleted
	5.8. A stopcock within each branch of the circuit should provide independent control of each branch.	This point to be Deleted
16	5.11. There should be provision for two charcoal filters for waste gas removal from chamber and nose cone.	There should be provision for two charcoal filters for waste gas removal from chamber and nose cone or a motorized scavenging unit.
	5.12. One charcoal filter should be connect to the induction chamber (air tight). Another charcoal filter should be connect to end of the patient breathing circuit.	This point to be Deleted
	5.13. Accessories required: • Mouse and rat-sized nosecones • Oxygen flow meter, oxygen flush valve, Precision vaporizer and oxygen hose assembly with threaded DISS connections. • 2 - Chambers (air tight) and charcoal filters. • Blue connector (Black tubing)	Accessories required: • Mouse and rat-sized nosecones • Oxygen flow meter, oxygen flush valve, Precision vaporizer and oxygen hose assembly with threaded DISS connections. • 2 - Chambers (air tight) and charcoal filters.
	6.3. Vendor to give code numbers for each component	Deleted
	7.1. c GMP compliances	Equipment shall comply with all safety requirements
	New addition : Type of Vaporizer Equipment should be suitable for Isoflurane	
	New addition : Mounting : Mobile and Table top option anaesthesia stand for the Vaporizer and flow meter	
	<b>Automatic Media preparator with Pourer</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	<b>Data Sheet point</b>	<b>Modified as</b>
	5.2. Transparent Lid to see all compounds from the top of the system	This point to be removed
17	<b>Bag sealing machine (Rotary)</b>	

Data sheet point number and excerpt*/description of the specifications*		Point modified as/ comment
3.5. Sealing seam width – 12 and 15 mm width		Sealing seam width – 12 mm
3.11. Overall dimensions (WxDxH)mm – 550mm(W)X 250mm(D)X150mm(H)		Overall dimensions (WxDxH) mm (approx)- 710X260X240 or Nearest.
3.12. Weight – Vendor to specify		Weight – Less than 25 Kg
4.1. Roll Conveyor – SS304		Roll Conveyor – Vendor to specify
4.2. External Surface – SS 304		External Surface – Vendor to specify
5.8. Machine should stop with warning alarm in case of parameters exceed the predetermined limits		This point to be deleted
5.9 – New addition		Inbuilt Validation system should be available
5.10 – New addition		In house calibration should be provided
6.5. Suitable enclosure to be provided for the equipment		This point to be deleted
6.7- Equipment should have provision for barcode printing and vendor to supply the barcode reader along with the requirement		This point to be deleted
7.3. New addition		CE Certificate required
8.1. Emergency stop function on accessible area		This point to be deleted
9.2. MOC Certificate		This point to be deleted
9.5. List of make with certificate		This point to be deleted
<b>18 Automatic / Manual Cell Factory/Cell Stack Manipulator</b>		
Data sheet point number and excerpt*/description of the specifications*		Point modified as/ comment
Data Sheet point		Modified as
9.1. IOQ Documents		Operational manuals required
<b>19 Data Logger</b>		
Data sheet point number and excerpt*/description of the specifications*		Point modified as/ comment
Data Sheet point		Modified as
3.2. Screen – 5.5 inch LCD display		Screen – 10-12 inch LCD display
3.4. Number of analog input – 100 channels		Number of input – 100 channels
5.3. Report shall be generated only by using authorized password		5.3. This point to be deleted
9.1. IQ/OQ/PQ validation documentation / Onsite activation		9.1. This point to be deleted
9.3. Calibration certificate should be provided		9.3. Test certificate should be provided
9.5. Onsite calibration/other terms of calibration		9.5. This point to be removed
New addition at specific equipment requirement		Thermocouples – 30 Nos



20	<b>Digital Thermohygro Meter</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	2.3. G1 DTH 01-25	G1 DTH 01-40
	3.1. Range RH: 1to99%(condensing) Temp-20 to 60	Range RH: 30 to 80% and above
	3.2. Accuracy : RH±3% ; Temperature±0.8°C	: RH±5% ; Temperature±0.8°C
	3.5.Resolution –Relative humidity 0.1% Temp:0.1 °C	Resolution –Relative humidity 1% Temp:0.1 °C
21	3.10. Quantity - 100	Quantity – 120
	<b>Geldoc system/ densitometer</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
24	3.6. Software – Software to support image capturing,enhancement,editing,annotation,archiving and analysis,microtitreplate,EliSpot,Array&Dot blot analysis,QPCR,Gelscoring,Band matching etc, Optimising and saving; Fast and efficient data transfer,automated work flows,autofocus	3.6. Software – software to support image capturing,enhancement,editing,annotation, archiving and analysis,Gelscoring,Band matching etc,Optimising and saving; Fast and efficient data transfer,automated work flows,autofocus
	<b>Laser particle counter</b>	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	3.1. Particle Size Range – 1.5 to 100 micron	Particle Size Range – 2 to 100 micron
	3.15. Calibration – Vendor to specify	Calibration – should comply with NIST Traceable standards
	3.16. Software – Particle contamination control s/w according to USP, BP, EP, JP and facility to use individual in house standards according to customers definition. Display, print out and storage of analysis data as well as calibration check.	Software – Particle contamination control s/w according to USP, EP .Display, print out and storage of analysis data as well as calibration check.
	5.3.The apparatus shall be closed container to avoid external contamination	This point to be deleted
	5.5. The apparatus shall be autoclavable	This point to be deleted
	<b>Cryo can storage container( LN2)</b>	
25	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	3.9. Static holding time – minimum 80 days	Static holding time – Vendor to specify
	3.13. Operational parameters : Temperature :- 150°C to 190°C	Operational parameters: Temperature: - 196°C.



	3.14 .Storage Requirement: a) Provision to ensure that cryovials are stored at vapour phase of nitrogen with physical separation from contact with Liquid nitrogen	This point to be deleted
	5.3. "castor wheels"-should be made of heavy duty cGMP compliant material	Castor wheels or Roller base to be provided
	6.1 Vendor to quote for all critical spares and accessories such as(i.e.not limited to) SS square shaped canister rack,storage inventory system such as SS cryobox for 2ml cryovials,LN2 transfer hose,cryoprotective gloves and Safety goggles which should be provided with each equipment	Vendor to quote for all critical spares and accessories such as(i.e. Not limited to) SS square shaped canister rack, storage inventory system such as LN2 level measuring scale and cryoprotective gloves which should be provided with each equipment
26	Cryo can storage container and pressurized LN2 refill cylinder	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	3.8. Static holding time- Minimum 120 days	Static holding time – vendor to specify
	3.11. 2nos of cryo storage container and 2 nos of pressurised LN2 cylinder for automatic refill	1 no of cryo storage container and 1 no of pressurised LN2 cylinder for automatic refill
	3.12. Operational parameters: a) Working pressure: 30 – 50 PSI	Operational parameters: a) Working pressure: 20 – 35 PSI
	3.16. LN2 Refill cylinder: d) Suitable pressurised liquid nitrogen cylinder of minimum 50 L capacity to connect to storage vessel for auto filling	d) Suitable pressurised liquid nitrogen cylinder of minimum 120 L capacity to connect to storage vessel for auto filling
	6.1. Vendor to quote for all critical spares and accessories such as(i.e.not limited to) SS square shaped canister rack,storage inventory system such as SS cryobox for 2ml cryovials,LN2 transfer hose,cryoprotective gloves and Safety goggles which should be provided with each equipment	Vendor to quote for all critical spares and accessories such as(i.e. Not limited to) SS square shaped canister rack, storage inventory system such as LN2 level measuring scale,LN2 transfer hose and cryoprotective gloves which should be provided with each equipment
	8.2.Should comply with safety requirement for pressure vessels and with EC medical devices directive 93/42/EC	Should comply with safety requirement for pressure vessels.
	Preferred List of makes : Thermofischer scientific , custom biogenic systems	Preferred List of makes MVE,STATEBOURNE,CRYOGENICS,MARATHON are included.
27	Type I Ultrapure water system	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	3.13. Feed water quality – soft water	Feed water quality – Soft water with conductivity range of 800 to 1000 $\mu$ S/cm
	5.3. The apparatus shall be closed container to	This point to be deleted

	avoid external contamination	
	5.5.The apparatus shall be autoclavable	This point to be deleted
28	Rapid transfer port	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	5.5.Connector device shall be autoclavable	This point to be deleted
	5.6. System shall ensure grade A continuity for aseptic processes	System shall ensure grade B continuity for aseptic processes
	9.3. Operational and maintenance manuals shall be provided along with IOQ documents during installation at site.	Operational and maintenance manuals shall be provided along with the equipment.
	Preferred List of makes : Thermofischer scientific , custom biogenic systems	Preferred List of makes MVE,STATEBOURNE,CRYOGENICS,MARATHON are included
29	Sterility Test Apparatus	
	Data sheet point number and excerpt*/description of the specifications*	Point modified as/ comment
	Data Sheet point	Modified as
	5.4. Should have pressure control system	This point to be deleted
	5.5.Should display Audio Visual alert in case of pressure	This point to be deleted
31	Euthanasia chamber with CO2 regulator	
	Lab animal euthanization is a procedure by which laboratory animals are killed quickly and painlessly. The same is necessitated on termination of an experimental procedure or otherwise for ethical reasons, Euthanasia chambers are designed for this purpose where in regulated CO <sub>2</sub> (approved inhalant euthanasia gas) will be used.	
2	Technical specification	
2.1	Type	Digital PLC-HMI based system (or ) Vendor to specify
2.2	Model	Table top (or) Vendor to specify
2.3	No of compartments	Single or 2 compartments or 4 compartments or vendor to specify
2.4	Total Dimension (Approximately)	Single chamber or 2 chambers or 4 chambers – Vendor to specify
2.5	MOC of the Chamber	Thick transparent Acrylic sheet or vendor to specify
2.6	Lid or Door	Hinged acrylic lid or door and should seal the chamber properly to prevent CO <sub>2</sub> release.
2.7	Control panel	Preferable option shall be touch screen color display with different modes like slow flow, fast flow, dwell with their respective time

		period from the control panel or manual control with regulator (vendor to specify)
2.8	<b>Flow Meter for CO2</b>	Flow meter to control the flow of CO2 shall be provided
2.9	<b>Quantity</b>	3 Nos
2.10	<b>Power requirement</b>	To be compatible with standard Indian power supply sockets (if applicable)
<b>3</b>	<b>Specific Requirement</b>	
3.1	The design feature of the equipment shall preferably facilitate individual chamber operation or in groups there by optimizing CO2 usage.	
3.2	Each compartment shall have an inlet and outlet valve with stopcock or vendor to specify	
3.3	CO2 flow rate shall be adjustable through regulator	
<b>4</b>	<b>Other Requirement</b>	
4.1	Design of the equipment shall facilitate easy cleaning.	
4.2	All bolts,nuts on the exterior part of equipment shall be preferably with caphead or capnut.	
4.3	There shall be no crevices, so as to avoid dust accumulation.	
4.4	All parts of the machine exposed must be resistant to standard disinfectants or vendor shall provide the name of specific disinfectants.	
4.5	Vendor to submit detailed fabrication drawing for approval before fabrication (if applicable)	
4.6	All inter connecting pipes and accessories are under the vendor scope	
4.7	Training/Demo for the users on operation and cleaning to be provided.	
<b>5</b>	<b>Safety Requirements</b>	
5.1	Chamber to be leak proof.	
5.2	Proper Earthing is necessary (if applicable)	
5.3	Appropriate closure of all parts.	
<b>6</b>	<b>Documents</b>	
6.1	IOQ documents.	
6.2	Operation and maintenance manual shall be provided along with IQ and OQ Documents during installation at site.	
6.3	Warranty letter for 1 year from the date of supply.	
6.4	List of standard spare parts with ordering information.	
6.5	Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their procedure.	

For HLL Biotech Limited

  
15/4/16





Head - Procurement

**Subject :** Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.

**Date & Time :** 04.4.2016 @ 10.30Hrs.

**Venue :** HBL Corporate office, Chennai

**Equipment's :** Incubator, BOD Incubator, Deep Freezer- Low Temperature (cGMP) Vertical, Deep Freezer- Low Temperature (cGMP) Horizontal, Standard Water Bath, Flocculation Water Bath, Elisa Reader, Elisa Plate Washer, Weighing Balance, Micro Weighing Balance, UV- Spectrophotometer

S.NO	Name & Designation	Organization	Contact No	email	Signature
1.	Sajith R.S.R (DM-Pro)	HBL	9662173632	sajithsr@hllbiotech.com	
2.	V. Sivaganesan (M)@c	HBL	9486022966	sivaganesan.v@hllbiotech.com	
3.	Dr. Anand J. DM-Act	HBL	9941692923	anandj@hllbiotech.com	
4.	V. LAKSHMI PRIYA	HBL	8220179413	lakshmi.priya@hllbiotech.com	
5.	Dr. K. A. ARUL ANAND (M) AHC-CPD	HBL	9940469305	arulanand@hllbiotech.com	
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8.	SRINIVASAN U	AMKETTE ANALYTICAL LTD	9360089078	Srinivasan@amc-india.net	
9.	B. Kabir Das	Ultra Inst	8939637826	uc@ultragroup.in	
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14.	KRISHNA MOORTHY	scigenics bio Tech Pvt. Ltd	9790939601	moorthi@scibio.in	



**HLL BIOTECH LIMITED**  
(Subsidiary of HLL Lifecare Limited)  
(A Government of India Enterprise)

**Subject :** Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.

**Date & Time :** 04.4.2016 @ 10.30Hrs.

**Venue :** HBL Corporate office, Chennai

**Equipment's :** Incubator, BOD Incubator, Deep Freezer- Low Temperature (cGMP) Vertical, Deep Freezer- Low Temperature (cGMP) Horizontal, Standard Water Bath, Flocculation Water Bath, Elisa Reader, Elisa Plate Washer, Weighing Balance, Micro Weighing Balance, UV- Spectrophotometer

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
15	S. Ravi - Area Manager	Neutronic Ultra Equipments	9176781378	S.ravi@neutronic-in	S. Ravi
16	S. Suresh	Ultra Instruments	9840359888	suresh@ultra@gmail.com	S. Suresh
17	Senthil Arasu	Tosho	9366010339	Senthil@tosho.com	Senthil
18	Sanjeev Kumar	HBL	9500732562	Sanjeev@hbl.co.in	Sanjeev
19	A. Gopinath	Citizen Scale	9940054215	gopinath@citizenscale.com	A. Gopinath
20	Mr. Anandan +1	LCG Radweg	9389017111	weighing-chenai@lccindia.com	Mr. Anandan
21	J. MOHAN RAO	Mark Spec Indrath	9500262452	Reader + washer	J. MOHAN RAO
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24	K. B. NAGANANDAN	BDS Screen	9281906157	Kbr@bdscreen.com	K. B. NAGANANDAN
30	Jeyaraj Singh	Leach Data	994295761	leachdata@gmail.com	Jeyaraj Singh






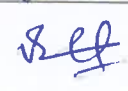









**Subject :** Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.

**Date & Time :** 05.4.2016 @ 10.30 Hrs.

**Venue :** HBL Corporate Office, Chennai

**Equipment's :** Magnetic Stirrer with Heating, Magnetic Stirrer without Heating, pH & Conductivity meter, Vortex Mixer, Colony Counter Automatic

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
01.	Surajit Nandi Product Executive	Labmate (Asia) Pvt. Ltd. - Ch-15	+919600068683	surajit@labmateasia.com	
02.	K. Balaji Area Manager	Labmate (Asia) Pvt. Ltd. - Ch-15	9940612496	kb@labmateasia.com	
03.	P. K. Subramanian Gen. Sales Manager	STSKIN INVSYS. BANGALORE	09731303993	Subramanian@stskin.in	
04.	M. Kiru Pakarath Service Executive	Labindia Instrument	9791945439	KiruPakarathm@labindia.com	
05.	V. Saravanan. SE	Dhio Tech.	9790054108	saravanan.elorack@gmail.com	
06.	A. Joseph	SunTecnology	9790735125	joseph@suntecnology.com	
07.	B. Kabir Das	Ultra Zest	8939637826	uc@ultragroup.in	
08.	Sujith. S.R (DM-Proc)	HBL	9442173692	sujithsr@hllbiotech.com	
09.	Dr. Beckseela Karanya	AM CHENNAI HBL	9962042399	beckseela1@hllbiotech.com	
10.	V. Lachmipriya	HBL	8220179463	lachmipriya@hllbiotech.com	
11.	V. Sivaganesan Manager - QC	HBL	9486022966	sivaganesan@hllbiotech.com	
12.	Sanjeev Kumar - R Manager - QC	HBL	9500132562	sanjeevkumar@hllbiotech.com	
13.	P. Victor Yeliset Kumar DM - QC microbiology	HBL	9866742421	victor@hllbiotech.com	
14.	P. Navin Kumar	HBL	9751561877	navinkp@hllbiotech.com	

**Subject :** Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.

**Date & Time :** 05.4.2016 @ 10.30 Hrs.

**Venue :** HBL Corporate Office, Chennai

**Equipment's :** Ultrasonic Bath, Air Sampler, Anesthesia chamber, Automatic media Preparator

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
01	Sujith S.R (DM-Proc)	HBL	9442173632	sujithsr@hllbiotech.com	
02	V. LAKSHMI PRIYA	HBL	8220179413	lakshmi.priya@hllbiotech.com	
03	Madhu Pillai	Bionerieux	9645258034	madhu.pillai@bionerieux.com	
04	D. A. V. Pratheep Kumar	Humanlife Science	9940067469	hlscience@rediffmail.com	
05	V. Saravanan Ohio Tech.	Ohio Tech.	9790084108	saravanan.gokul1987@gmail.com	
06	B. Kabin Das	Ultra Instruments	8939637826	uc@ultragroup.in	
07	Megha Gampa	Sartorius	9900054744	megha.gampa@sartorius.com	
08	A. Rajasekar	Sartorius	9380004551	Raja.arumugam@sartorius.com	
09	TANDELMANI. P.	MERCK MILLIPORE	9962724452	tandelmani.p@merckgroup.com	
10	A. Joseph	Swan Eurus	9790935125	joseph@swanurus.com	
11	K Balaji	Labmate (A.M) Pvt	9940612486	kb@labmate.com	
12	P. Victor. Yeliset Kumar	HBL	9866742421	victor@hllbiotech.com	
13	Sanjeev Kumar. R	HBL	9500732562	Sanjeevkumar@hllbiotech.com	
14	K. YASWANTHA REDDY	HBL	9677182320	yashwanthk@hllbiotech.com	







**HLL BIOTECH LIMITED**  
(Subsidiary of HLL Lifecare Limited)  
(A Government of India Enterprise)

**Subject :** Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.

**Date & Time :** 06.4.2016 @ 10.30 Hrs.

**Venue :** HBL Corporate Office, Chennai

**Equipment's :** Bag Sealing machine, Automatic / Manual Cell Factory/Cell Stack Manipulator, Data logger, Digital Thermo hygrometer

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
1.	V.B. RAGHAVAN - MANAGER SALES	CENTUM CONTROLS P LTD	7299022735	raghavam@centumcontrols.com	
2.	S. Raghav - Asst mgt product sales	Yokogawa India Pvt	9442583544	S.raghu@in.yokogawa.com	
3.	Anandm - Product sales.	Yokogawa India Pvt	7299913994	anand.m@in.yokogawa.com	
4.	M. Suresh	Thermo fisher	7299977113	Suresh.m@thermofisher.com	
5.	B. Kabirdas	Ultra Dint	8939637826	u@ultragroup.in	
6.	V. Sivaganesu Manager.	HBL	9486022966	sivaganesu@hllbiotech.com	
7.	P. NARIN KUMAR	HBL	9751561877	NARINKP@HLLBIOTECH.COM	
8.	Sanjeevkumar.R	HBL	9500732562	Sanjeevkumar@hllbiotech.com	
9.	K.YASWANTHA Reddy	HBL	9677182320	yaswanthk@hllbiotech.com	
10.	Sujith. S.R	HBL	946273632	sujithsr@hllbiotech.com	

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**HLL BIOTECH LIMITED**  
(Subsidiary of HLL Lifecare Limited)  
(A Government of India Enterprise)

**Subject :** Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.

**Date & Time :** 07.4.2016 @ 10.30 Hrs.

**Venue :** HBL Corporate Office, Chennai

**Equipment's :** Laser Particle Counter, Cryo can storage container( LN2), Cryo can storage container and pressurized LN2 refill cylinder, Type I Water sys,

Rapid transfer port, Sterility test apparatus, FTIR Spectrophotometer.

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
1.	A. Joseph - Manager	Sunitekology	9790935125	joseph@sunitekology.com	A. Joseph
2.	Varun Dhir	Sartorius	9686092592	VARUN.DHIR@SARTORIUS.COM	Varun Dhir
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5.	Amithalingam	Metrohm	9840727161	m.amithalingam@metrohm.in	Amithalingam
6.	R. Viswanathan	Inexus Biotech	9566293330	Sales@inexusbiotech.com	R. Viswanathan
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8	Sujith S R	HBL	9442173632	sujiths@hllbiotech.com	Sujith S R
9.	Sanjeev kumar. R	HBL	9500732562	Sanjeevkumar@hllbiotech.com	Sanjeev kumar. R
10	B. Sathesh	HBL	9443026393	Satheshb@hllbiotech.com	B. Sathesh
11	D. Ravi	Indus Instruments Vompex P Ltd	9840081945	info@indusinst.net	D. Ravi
12	Senthil Kumar	Tosho	9344010339	Senthilak@tosho.com	Senthil Kumar
13.	TAMILMANI. R.	MERCK MILIPORE	9962724452	tamil.mani@merckgroup.com	TAMILMANI. R.
14.	Rajasekhar Pandanathi	MERCK	9833749076	Rajasekhar.pandanathi@merckgroup.com	Rajasekhar Pandanathi

<b>Subject</b>	:	<b>Pre Bid Meeting for Lab Equipment's (Open Tender) at IVC, Chengalpattu.</b>
<b>Date &amp; Time</b>	:	<b>07.4.2016 @ 10.30 Hrs.</b>
<b>Venue</b>	:	<b>HBL Corporate Office, Chennai</b>
<b>Equipment's</b>	:	Laser Particle Counter, Cryo can storage container( LN2), Cryo can storage container and pressurized LN2 refill cylinder, Type I Water sys <i>Rapid transfer port, Sterility test apparatus, FTIR Spectrophotometer</i>

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