

**MINUTES OF THE MEETING**

**TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF LAB EQUIPMENTS  
(Phase II) AT PII, COONOOR**

**Document No. :** NPI/110831/EQP/TD/15/PH2 Dated: 14.11.2016

**Venue :** HLL Biotech Limited, Chennai

**Date :** 21.11.2016 & 22.11.2016

**Project :** Revival of DPT Vaccines manufacturing facility

**Attendees :** See attached list of attendees

**Issued on :** 25<sup>th</sup> November, 2016

**Issued from :** Senior Manager – Procurement

Agenda	
1.	Pre-bid Meeting for Lab equipment (Phase II) at PII, Coonoor.

A Discussion on Tender Enquiry Document: NPI/110831/EQP/TD/15/PH2 Dated : 14.11.2016	
	<b>Commercial Points</b>
	<b>Page 51/93, General Technical Specifications:</b>
1.	1. <b>Warranty :</b> a) <b>One year Comprehensive Warranty</b> as per Conditions of Contract of the TE document for complete equipment and Turnkey (if any) Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Consignee.
2.	<b>FAT(Factory Acceptance Test) not required for any of the equipment/schedule in this tender.</b>
3.	<b>Page 3/93, Notice Inviting Tender(NIT):</b> Schedule 5: Refrigerated Centrifuge Capacity/Spec shall be read as " 6 Litre per run" in all places.
4.	<b>Schedule 9: Hot Plate quantity increased from 2 Nos to 5 Nos.</b>
5.	<b>Schedule 11: Heating Mantle has been deleted from this tender.</b>
6.	<b>Schedule 13: Water Bath quantity decreased to 4 Nos from 5 Nos.</b>
7.	<b>The tender document, IRS, Pre-bid MOM, Balance Sheet, profit loss statements and other supporting documents shall be submitted only once if vendors participate in multiple schedules. However, vendors should submit schedule wise technical(URS &amp; Product Catalog) &amp; financial/price bids separately sealed and signed in separate covers.</b>
8.	<b>Revised NIT, Price Schedule(Domestic, Import, AMC &amp; CMC) shall be as per Annexure - I</b>
9.	<b>Last Date &amp; Time of Bid Submission and Technical Bid Opening shall be as below.</b>

Schedule . No	Equipment	CMC/AMC	Bid Submission	Technical Bid Opening
			Date & Time	Date & Time
1	Table top Lyophilizer	CMC	06.12.2016 & 10.30 Hrs.	06.12.2016 & 11.00 Hrs.
2	Cryogenic storage container	AMC		
3	Stability chamber	AMC		
5	Refrigerated centrifuge	CMC		
8	Table Top Cooling Centrifuge	AMC		
14	Media Dispenser	AMC		
15	Homogeniser	CMC		
4	Binocular compound microscope	AMC	07.12.2016 & 10.30 Hrs.	07.12.2016 & 11.00 Hrs.
6	ELISA Reader	AMC		
7	Colony Counter	AMC		
9	Hot Plate	AMC		
10	Anaerobic Jar	AMC		
12	Electrical pipette controller	AMC		
13	Water Bath	AMC		
<p><b>*CMC (Comprehensive Maintenance Contract) shall be for a period of 5 years after the completion of warranty period (12 months from the date of completion/final acceptance certificate).</b></p> <p><b>*AMC (Annual Maintenance Contract) shall be for a period of 2 years after the completion of warranty period (12 months from the date of completion/final acceptance certificate).</b></p> <p><b>*For Schedule 1: Table Top Lyophilizer: Accessories warranty period shall be for 12 months from the date of completion/final acceptance certificate.</b></p>				

S. No.	Clarifications on URSSs	
<b>B</b>	<b>URS: NPI_110831_EQP_URS_15-PH2</b>	
	<b>Specific revision in the URS</b>	
	<b>URS Point number and excerpt* / description of the specification *</b>	<b>Point modified as / Comment</b>
<b>C.</b>	<b>Schedule No 1. Table top Lyophilizer</b>	
1.	2.3 Water Removal capacity (in 12hr) – 2 L	2.3 Water Removal capacity in 24hr minimum 1.8 L ( lyophilisation time 18-24Hrs primary drying & 3 hrs secondary drying)
2.	2.4 Maximum Ice holding capacity (in 12hr) – 6 L	2.4 Ice holding capacity (in 24 hr) – min 2.5 L
3.	2.7 No of Manifolds : Minimum 8 ports with vacuum valves [Manifold for ampoules and vials to be provided]	2.7 No of Manifolds : Minimum 6 ports with vacuum valves [Manifold for ampoules (ID ranging from 6 - 7mm.) to be provided].
4.	2.13 Accessories to be provided along with Equipment's : a. Vial crimping tool-4 No's b. Ampoule sealing tool-4 No's c. Vacuum tester-4 No's [Spec attached as Annexure]	Accessories to be provided along with Equipment's : a. Vial crimping tool-4 No's b. Ampoule sealing torch ( The operation should complete in less than one minute per ampoule) -4 No's c. Vacuum tester-4 No's [Spec attached as Annexure] d. Vial stoppering sealing system -4 Nos e. All the above mentioned accessories shall have minimum 1 years of warranty and no CMC is required.
5.	4.8 Moisture sensor must be considered with the system	Deleted
6.	4.12 It should be provided with LED displaying vacuum and temperature wave graphs	4,12 It should be provided with LED/LCD displaying vacuum and temperature wave graphs
<b>D.</b>	<b>Schedule No 2. Cryogenic storage container</b>	
7.	2.3 Storage Capacity Min 60L-1no with cryo boxes to store cryovials Transport tank-32L -2no .s with trolley	2.3 Storage Capacity Min 60L-1no with cryo boxes to store cryovials Transport tank-32L -2nos with trolley & lockable caster wheels



S. No.	Clarifications on URSSs	
8.	2.14 Temperature c) Hot gas bypass should be provided to vent warm nitrogen gas from the supply line before initiating LN2 fill d) The equipment should be able to store critical data with time for assessing the equipment performance and trouble shooting.	2.14 Temperature c) Deleted d) Deleted
9.	2.15 Storage requirements b) The cryo storage container should be designed to store and retrieve 5.8 ml cryovials arranged in a secondary SS container	2.15 Storage requirements b) The cryo storage container should be designed to store and retrieve 1.8 ml cryovials arranged in a secondary SS container
10.	2.16 Controls a) Should have automatic liquid nitrogen level control with user defined parameters for low level alarm, low level fill point, high level fill point and high level alarm. The alarms should be in audio and visual modes. c) The equipment should be able to store critical data with time for assessing the equipment performance and trouble shooting. d) Menu and settings with customizable security levels using password should be provided. e) De-fog system should be present to ensure good visibility f) Automatic monitoring and display of LN2 level g) Control pannel shall be mounted on the top of the unit for convenient assess and easy operation h) Remote alarm system shall be provided.	2.16 Controls a) Deleted c) Deleted d) deleted e) Deleted f) Monitoring and display of LN2 level g) Deleted h) Deleted
11.	5.1 Vendor should provide all critical spares and accessories such as (i.e not limited to) SS square shaped canister racks, storage inventory system such as SS cryo boxes for 5.8 ml cryovials, LN2 transfer hose, cryoprotective gloves and safety goggles which should be provided with each equipment.	5.1 Vendor should provide all critical spares and accessories such as (i.e. not limited to) SS square shaped canister racks, storage inventory system such as cryo boxes (PP) for 1.8 ml cryovials, LN2 transfer hose, cryoprotective gloves and safety goggles which should be provided with each equipment.
<b>E. Schedule No 3. Stability chamber</b>		
12.	No change (Remains Same as published data sheet/URS)	
<b>F. Schedule No 5. Refrigerated centrifuge</b>		
13.	2.2 Type : Floor mounted with lockable caster wheels	2.2 Type : Floor model with lockable caster wheels
14.	3.1 The MOC of the outer body should be corrosion resistant, made up of cat metal ergonomic body with stain resistant enamel finish.	3.1 The MOC of the outer body should be corrosion resistant, made up of cast metal ergonomic body with stain resistant enamel finish.



S. No.	Clarifications on URSS	
15.	5.3 It should be provided with automatic lid-lock system.	Deleted
16.	5.6 1 set of additional centrifuge bottles should be provided per Equipment apart from standard supply	5.6 1 set of additional centrifuge bottles should be provided per Equipment apart from standard supply ( Centrifuge bottles shall be autoclave able in nature)
<b>Schedule No 8. Table Top Cooling Centrifuge</b>		
17.	2.7 Capacity: Same rotor should be able to process the following with suitable adaptors in a single run, 1. 4 x 15 ml (Conical) 2. 4 x 50 ml (Conical/ Oak ridge) 3. 1000 ml (Minimum fill volume)	2.7 Capacity: Vendor to provide Same /Different rotor which should be able to process the following with suitable adaptors in a single run, 1. 4 x 15 ml (Conical) 2. 4 x 50 ml (Conical/ Oak ridge) 3. 1000 ml (Minimum fill volume)
18.	2.13 Operating speed(RPM) : 50-4000 RPM	2.13 Operating speed(RPM) : 100-4000 RPM
<b>G. Schedule No 14. Media Dispenser</b>		
19.	3.1 MOC of the outer body : Stainless steel	3.1 MOC of the outer body : GMP/GLP(To withstand cleaning with 70% IPA)
<b>H. Schedule No 15. Homogeniser</b>		
20.	List preferred make of components Spray ball - HAKE	List preferred make of components Spray ball - HAKE,LECHLER
<b>Day - 2, 22-11-2016</b>		
<b>I. Schedule No 4. Binocular compound microscope</b>		
21.	4.2 Minimum magnification of the microscope should be 10X	4.2 Type of objective is plan achromatic 4X, 10 X, 40X, 100X (oil immersion). Eye piece should be 10X magnification.
22.	4.5 Focusing movement should be coaxial, low-position coarse and fine focus controls; it should be graduated to 2 microns per division; fitted with safety auto stop. Range should be ± 20mm	4.5 Focusing movement should be coaxial, low-position coarse and fine focus controls.
23.	4.7 Working distance should be auxiliary objective to object distance 270 mm	Deleted
24.	4.14 20 W lamp for illumination shall be provided	4.14 Suitable lamp for illumination shall be provided
25.	5.5 Vendor to provide the following optional Accessories Co-Axil mechanical stage, storage cabinet with lock and key. Draw tube, spare objectives, sub-stage 20W Lamp for 220/110V.	Spare lamp to be provided

S. No.	Clarifications on URSSs	
26	<b>New point:</b> M1-CMC-01 should equipped with detachable camera (minimum 2 mega pixel) and software along with computer, 0.5 kw UPS vendor software.	
<b>J.</b>	<b>Schedule No 6. ELISA Reader</b>	
27.	2.1 Microplate type: 96/384 wells, Cuvettes.	2.1 Microplate type: 6, 12,24,48,96,384 well plates & Cuvettes.
28	2.2 Filters : Filters,Standard filtrartion system/ Monochromatic Based system	2.2 Filters : Monochromatic Based system ( 200-999nm)
29	2.9 Temperature control : 4 °C to 45 °C	2.9 Temperature control: Ambient Temperature. +4 °C to 45 °C
30	2.10 Wavelength : 200nm to 800nm	2.10 avelength : 200nm to 999 nm
31	2.11 Bandwidth : 2 nm	Deleted
32	2.13 Light source : Vendor to specify	2.13 Light source : Mercury free lamp
33	2.17 PC : PC to be considered for this equipment along with printer	2.17 PC : PC to be considered for this equipment along with 0.5kva UPS & laser printer
34	4.4 Three broad spectrum light source to accommodate a wide variety of assays	Deleted
35	5.1 Automatic shut off shall be provided	5.1 Automatic shut off for plate carrier shall be provided
36	5.3 Vendor shall provide the option to record the data.	Deleted
37	<b>New Point:</b> 2 no's of quarts cuvette, 2 no's glass cuvette & 1 standard pack of plastic cuvette(Disposable cuvette) shall be provided with supply	
<b>K.</b>	<b>Schedule No 7. Colony Counter</b>	
38	2.4 Image resolution : up to 4752 X 3168	2.4 Image resolution : Minimum 0.3 Mega pixel
39	2.9 Counts on : Petri dishes, Pour and spiral plates	2.9 Counts on : Petri dishes and spiral plates
40	2.13 Database: MS SQL Server Express database automatically stores all data.	Deleted
41	4.8 Software should use algorithm for colony counting on petri dishes, pour and spiral plates.	Deleted
42	4.11 Software should meet 21 CFR Part 11 technical requirements.	Deleted
43	4.12 Software should be provided with the colony counter.	Deleted



S. No.	Clarifications on URSSs	
44.	4.13 Minimum PC specification: <ul style="list-style-type: none"> <li>• Processor: Intel Core 2 or Core i processor 2.13 GHz or better</li> <li>• Operating system: Windows XP Professional 32 bit version or Windows 7 Professional 32 bit and 64 bit version</li> <li>• Monitor: 1280 x 1024 minimum resolution (not compatible with lower resolutions as some elements of the application become inaccessible)</li> <li>• Hard drive: 160GB (or larger)</li> <li>• Graphics: Intel X4500 or better</li> <li>• 2Gb RAM or better</li> <li>• CD-Rom drive (required for software installation)</li> <li>• One main board USB 2 free port, One RS 232 free port with an RS 232 adapter</li> </ul>	4.13 Suitable PC shall be provided with 0.5kva UPS & laser color printer
45.	5.12 Equipment should be integrated with printer, to analyse result details.	5.12 Equipment should be integrated with printer (Laser type), to analyse result details.
46.	6.1. 21 CFR Part11 Compliance.	Deleted
47.	6.2 RS 232 interface is required to transfer the data as well as to take the print out.	6.2 RS 232 interface/USB is required to transfer the data as well as to take the print out.
<b>L.</b>	<b>Schedule No 9. Hot Plate</b>	
48.	2.2 Heating Temperature Range (°C) : 38 to 500	2.2 Heating Temperature Range (°C) : 50 to 500
49.	2.4 Accuracy (°C) : ± 3	2.4 Accuracy (°C) : ± 5
50.	2.9 Plate dimension (W X D), mm – Vendor to specify	2.9 Plate dimension (W X D), mm – Minimum should hold 3 liter conical flask
51.	3.1 Body : SS 304 (resistance to corrosion)	3.1 Body : SS 304 (resistance to corrosion) and powder coated
52.	Immersion probe	Deleted



S. No.	Clarifications on URSSs	
53.	Table No :1	
	Equipment ID	Block Name
	B1-HTP 01	Diphtheria Block
	B2-HTP 01	Tetanus Block
	B2-HTP 02	Tetanus Block
	B1-HTP 01	Pertussis Block
M-HTP-01	QC block	
	Quantity	Room Name
	1	IPQC
	1	Seed Preparation
	1	Buffer room
	1	IPQC
	1	NA
<b>M.</b>	<b>Schedule No 10. Anaerobic Jar</b>	
54.	2.1 Model : GLP/GMP	2.1 Model : GLP/GMP/LAB model
55.	2.3 Type : Portable	2.3 Type : Portable & Bench top
56.	6.1 The equipment shall be as per GLP/GMP standards.	Deleted
57.	8.1 IOQ Protocol.	Deleted
58.	8.2 Operation and maintenance manuals shall be provided along with IQ and OQ documents during installation at site	Deleted
59.	8.3 Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their calibration procedure.	Deleted
<b>N.</b>	<b>Schedule No 11. Heating Mantle</b>	
60.	Schedule Deleted	
<b>O.</b>	<b>Schedule no: 12. Electrical pipette controller</b>	
61.	3.3 Operating temperature : (+10-35°C)	3.3 Sample temperature : +2 to 40 °C
62.	3.7 Charging Adaptor : 120/100V or 230V 50/60Hz with US/EU/UK plug	3.7 Charging Adaptor : 120/100V or 230V 50/60Hz with Indian plug type or suitable adaptor to be provided
63.	3.9 Autoclave : Vendor to specify	Deleted
64.	3.11 Battery 3.7V,1100mAh or above,Li-Ion	3.11 Battery : Battery withstand capacity shall be min 8 hours (on cont. running)
65.	3.12 Weight : less than 195 g including a battery	3.12 Weight : less than 200 g including a battery

S. No.	Clarifications on URSSs	
66.	3.15 Pipette Holder : Silicone	3.15 Pipette Holder : Vendor to specify
67.	3.16 Battery backup : vendor to specify	Deleted
68.	5.1 LED display required to indicate the low battery level.	Light display required to indicate the low battery level.
69.	5.2 During the charging period the battery indicator will turn red and after the battery is fully charged, the battery indicator will turn green	5.2 Battery indicator should be available during charging and Low battery indication should be available
70.	5.4 The charging period shall be takes about 5 to 10 hrs	5.4 Charging period shall not be more than 5 hrs
71.	5.5 The equipment shall be compatible for cleaning with all standard disinfectants.	5.5 The equipment shall be compatible for cleaning with all 70% IPA
72.	9.1 IOQ protocol	Deleted
73.	9.2 Operation and maintenance manuals shall be provided along with IQ and OQ documents during installation at site	Deleted
74.	9.3 Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their calibration procedure.	Deleted
75.	10.1 The maximum available logistics opening is 750mm Width & 2000mm height vendor to design/execute / supply equipment accordingly	Deleted
<b>P.</b>	<b>Schedule no: 13. Water Bath</b>	
76.	2.1 Model : cGMP model	2.1 Model : LAB model
77.	2.6 View class size(LxH) : 45 cm x 13 cm	2.6 View class size(LxH) : 45 cm x 13 cm minimum
78.	2.11 Working temperature rang : Ambient temperature +5 °C to 100 C	2.11 Working temperature rang : Ambient temperature +5 °C to 90 °C
79.	3.6 Racks for test tubes : Stainless Steel	3.6 Racks for flocculation tubes : Stainless Steel
80.	4.1 Should be cGMP compliant	4.1 Should be cGMP/LAB compliant
81.	6.1 CE	Deleted

S. No.	Clarifications on URSSs	
82.	8.1 IOQ protocol	Deleted
83.	8.2 Operation and maintenance manuals shall be provided along with IQ and OQ documents during installation at site	Deleted
84.	Table no:1 <ul style="list-style-type: none"> <li>• B1-WBH 02</li> <li>• A1 WBH 01</li> </ul>	<ul style="list-style-type: none"> <li>• B1-WBH 02 - DELETED</li> <li>• A1 WBH 01 – DELETED</li> <li>• M1-WBH 01 – Is added newly</li> </ul>

For HLL Biotech Limited

  
 25/10/16.

Senior Manager – Procurement







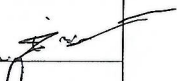

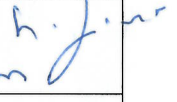
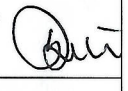
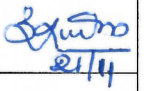
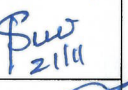
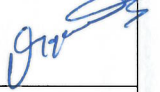


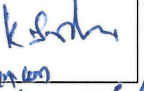
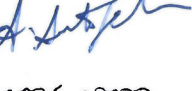


**Subject :** Pre Bid Meeting for Lab Equipment's (Phase II) at PII, Coonor.

**Date & Time :** 21.11.2016 @ 9:45 to 13:30.

**Venue :** HBL Corporate Office, Chennai, Phase II

**Equipment's :** Table Top Lyophilizer, Cryogenic Storage Container, Refrigerated Centrifuge  
Table top cooling centrifuge.

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
1	Ashwani kumar Mishra	Genetix Biotech	9791430780	ashwani@genetixbiotech.com	
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**Subject** : Pre Bid Meeting for Lab Equipment's (Phase II) at PII, Coonoor.  
**Date & Time** : 21.11.2016 @ 14:30 to 18.30.  
**Venue** : HBL Corporate Office, Chennai, Phase II  
**Equipment's** : Homogeniser, Media Dispenser, Stability chamber.

LIST OF ATTENDEES

S.NO	Name & Designation	Organization	Contact No	email	Signature
1.	A. ANTO FELIX	HLL	9444486955	antofelix@lifecare hll.com	A. Antofelix
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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 (Phase II) at PII, Coonoor.  
**Date & Time :** 22.11.2016 @ 9:30 to 13.30.  
**Venue :** HBL Corporate Office, Chennai, Phase II  
**Equipment's :** Binocular compound microscope, ELISA Reader, Colony Counter, Hot Plate, Anaerobic Jar.

**LIST OF ATTENDEES**

S.NO	Name & Designation	Organization	Contact No	email	Signature
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