

**MINUTES OF THE MEETING**

**PRE BID MEETING OF TENDER FOR  
SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF BLENDING VESSELS  
AT HLL BIOTECH LIMITED, CHENGALPATTU, CHENNAI**

**Document No. :** NPI-120310-EQP-S1-TD-04

**Venue :** HLL Biotech Limited, Chennai

**Date :** 09.04.2014

**Project :** Integrated Vaccines Complex, Chengalpattu

**Attendees :** See attached list of attendees

**Issued by :** CEO HBL

**Issued on :** 11<sup>th</sup> April 2014

**Issued from :** NNE Pharmaplan India Limited, Bangalore

Agenda	
1.	Pre-bid Meeting for supply, installation, commissioning and validation Blending Vessels for IVC, Chengalpattu

S. No.	Clarifications on queries																																													
	<b>Tender for supply, installation, commissioning and validation of Blending Vessels, HLL Biotech limited, Chengalpattu - TE Doc No: NPI-120310-EQP-S1-TD-04</b>																																													
<b>A</b>	<b>Discussion Tender Enquiry Document: NPI-120310-EQP-S1-TD-04</b>																																													
	<b>General Discussion Points</b>																																													
1.	Based on LOI, the supplier to submit the Performance Bank Guarantee. On receipt of the Performance Bank Guarantee, the PO will be issued.																																													
2.	An extension on the approval of drawings was requested, the same was clarified that no deviation on the schedule.																																													
3.	Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorization Form.																																													
4.	The make and model no. should be explicitly mentioned in the Un-Price Bid and Price Bid.																																													
5.	AutoCAD Format of the room layouts is attached as annexure.																																													
S. No.	Clarifications on URSs																																													
<b>B</b>	<b>URS: – URS/BLV 01</b>																																													
	Pg.no 5/22 - TABLE 2 Point modified as																																													
1.1	<table border="1"> <thead> <tr> <th rowspan="2">S No</th> <th rowspan="2">Description</th> <th colspan="2">Viral Vaccine Formulation Block</th> <th rowspan="2">Bacterial Vaccine Formulation</th> </tr> <tr> <th>Rabies</th> <th>Measles</th> </tr> </thead> <tbody> <tr> <td>4</td> <td>Min W.V</td> <td>12.5L</td> <td>12.5L</td> <td>40L</td> </tr> <tr> <td>5</td> <td>H/D</td> <td>Vendor to specify</td> <td>Vendor to specify</td> <td>Vendor to specify</td> </tr> <tr> <td>7</td> <td>Peristaltic Pump</td> <td>1No. portable standalone variable speed pump. Flow rate - 500 to 1000 ml/min Silicon Tube ID- 6.4 mm</td> <td>1No. portable standalone variable speed pump. Flow rate - 500 to 1000 ml/min Silicon Tube ID- 6.4 mm</td> <td>2 Nos. Fixed speed pump- 10 to 20 ml/min, Silicon Tube ID - 3.2mm 1No. Portable standalone variable speed pump. Flow rate - 20 to 200 lt/hr</td> </tr> <tr> <td>8</td> <td>Baffles</td> <td>Removable Type Baffle required</td> <td>Removable Type Baffle required</td> <td>Removable Type Baffle required</td> </tr> <tr> <td>12</td> <td>SCADA</td> <td>Not required</td> <td>Not required</td> <td>SCADA with IPC to be placed in Blending room</td> </tr> <tr> <td>14</td> <td>CIP</td> <td>Mobile CIP system(Not in scope)</td> <td>1 No. Detachable type Centrifugal Pump for CIP recirculation</td> <td>Mobile CIP system(Not in scope)</td> </tr> <tr> <td>18</td> <td>RPM</td> <td>50-400</td> <td>50-400</td> <td>50-400</td> </tr> </tbody> </table>	S No	Description	Viral Vaccine Formulation Block		Bacterial Vaccine Formulation	Rabies	Measles	4	Min W.V	12.5L	12.5L	40L	5	H/D	Vendor to specify	Vendor to specify	Vendor to specify	7	Peristaltic Pump	1No. portable standalone variable speed pump. Flow rate - 500 to 1000 ml/min Silicon Tube ID- 6.4 mm	1No. portable standalone variable speed pump. Flow rate - 500 to 1000 ml/min Silicon Tube ID- 6.4 mm	2 Nos. Fixed speed pump- 10 to 20 ml/min, Silicon Tube ID - 3.2mm 1No. Portable standalone variable speed pump. Flow rate - 20 to 200 lt/hr	8	Baffles	Removable Type Baffle required	Removable Type Baffle required	Removable Type Baffle required	12	SCADA	Not required	Not required	SCADA with IPC to be placed in Blending room	14	CIP	Mobile CIP system(Not in scope)	1 No. Detachable type Centrifugal Pump for CIP recirculation	Mobile CIP system(Not in scope)	18	RPM	50-400	50-400	50-400			
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1.2	<ul style="list-style-type: none"> <li><b>F1-BLV 01 and F1-BLV 02</b> Platform balance should be fixed on the floor and a ramp to be provided with an inclination of not more than 20 degree angle for easy handling and it should be easily cleanable. Accuracy should be +/- 1% Readability should be 0.01 kg</li> <li><b>F2-BLV01 Load Cell :-</b> Accuracy should be +/- 1% Readability should be 0.01 kg</li> </ul>																																													
1.3	Pg No. 9/22 Point No-2.2.9 Product Transfer- Bacterial Vaccine Formulation (F2-BLV 01). Necessary Diaphragm valves for SIP, Product transfer and Transfer/Recirculation Sterile Pump (CIP/SIP able) with all necessary arrangements with a max flow rate of 200L/hr should be considered as part of supply.																																													
1.4	Vendor to provide the necessary silicon braided flexible sanitary hoses for the process lines and jacket line accordingly.																																													

S. No.	Clarifications on queries	
1.5	There should not be any spillage from the utility end connections while disconnecting and transport from the piping skid / mobile vessel. Vendor should design the utility end connection for the jacket & others accordingly	
1.6	Vendor to ensure that, the brine solution should not get mixed up with chilled water in the jacket during the changeover b/w chilled water to brine and also vendor to ensure that Brine has to go back to the supply tank by pressurizing the jacket. Hence vendor shall design accordingly b/w the sequences complete flushing of jacket with air or vendor to specify.	
	URS Point number and excerpt* / description of the specification *	Point modified as/Comment
1.7	<b>2.1.2</b> Temperature Control: The temperature during blending shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, Brine Solution etc) in to the jacket. Temperature control during blending should be 10 °C - 25 °C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±1 °C).	Temperature Control: The temperature during blending shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, Brine Solution etc) in to the jacket. Temperature control during blending should be 10 °C - 25 °C (tolerance limit: ± 2 °C) & during sterilization Temperature should be 122 °C (tolerance limit:±1 °C).
1.8	<b>2.1.7</b> Volume Measurement: Platform Balance should be provided. It should be able to connect directly to the control system.	Volume Measurement: Platform Balance should be provided. It should be able to connect directly to the control system. It should be cleanable without disturbing the fixative.
1.9	<b>2.2.2</b> Temperature Control: The temperature during blending shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, Brine etc) in the jacket. Temperature control during blending should be 10 °C - 25 °C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±1 °C). Temperature control during Holding should be 2 °C - 8 °C (tolerance limit: ±0.1 °C).Bottom dish jacket should be provided. Temperature maintenance and control shall be done with chilled Brine.	Temperature Control: The temperature during blending shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, Brine etc) in the jacket. Temperature control during blending should be 10 °C - 25 °C (tolerance limit: ±2 °C) & during sterilization temperature should be 122°C (tolerance limit: ±1 °C). Temperature control during Holding should be 5 °C - 8 °C (tolerance limit: ±2 °C).Bottom dish jacket should be provided. Temperature maintenance and control shall be done with chilled Brine.
1.10	<b>2.2.11</b> SIP (Sterilization – In – Place): The blending vessel shall be designed for in built SIP. The following principles will be applied for SIP of the system: The vessel should be provided with ESIP features	SIP (Sterilization – In – Place): The blending vessel shall be designed for in built SIP. The following principles will be applied for SIP of the system: The vessel should be provided with ESIP and FSIP features
1.11	<b>3.3.1</b> Bacterial Vaccine formulation:- Product from the Blending vessel will be flushed out through the Flush bottom valve and then transferred using the Peristaltic pump through the fixed piping to the buffer vessel in the filling room	Bacterial Vaccine formulation:- Product from the Blending vessel will be flushed out through the Flush bottom valve and then transferred using SIP able Pump (vendor to specify type of pump) through the fixed piping to the buffer vessel in the filling room
1.12	<b>6.1.10</b> Pneumatically actuated valves in the individual Feed lines, WFI, PW, CIP, Buffer, Pure steam and discharge line.	Pneumatically actuated valves in the individual Feed lines, WFI, PW, CIP, Buffer, Pure steam and discharge line. For WFI and PW Necessary valve and trap arrangement should be provided to sterilize the line from the user point.
1.13	<b>6.4</b> Level of Instrumentation	<b>6.4</b> Level of Instrumentation

S. No.	Clarifications on queries	
		Jacket Temperature Probe - Deleted
1.14	<b>6.7.7</b> For hot and cold pipe lines ¾ "thickness armaflex material insulation shall be provided.	For hot and cold pipe lines, ZOTEFOAM material insulation should be provided.
1.15	<b>6.7.8</b> Vendor should provide essential spare parts required for minimum of 1 year and consumables for minimum of 2 years and a set of special tools if any.	Vendor should provide essential spare parts required for minimum of 1 year and consumables for minimum of 2 years and a set of special tools if any.(pH probe, Air filters)
1.16	<b><u>URS Annexure 3: List of Preferred Make of components</u></b>	<b><u>URS Annexure 3: List of Preferred Make of components , below components included</u></b> Conductivity Sensor : Metler Toledo/E&H Centrifugal Pump : Wilo/Alfa laval/Fristam Temperature sensor : Negele/ E&H Flush bottom valve : Novaseptic Sampling Valve :Novaseptic Angle seat valve(Pneumatic) :GEMU/ SED Flexible hose : Saint gobian/Watson marlow

  
 For HLL Biotech Limited  
 Chief Executive Officer

**List of Attendees**

**Project** : Integrated Vaccines Complex  
**Date of Meeting** : 09<sup>th</sup> April 2014  
**Venue** : HBL, Tisel Biopark, Taramani, Chennai  
**Subject** : Pre bid meeting - Supply, Installation, Commissioning and Validation of Blending Vessels

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