

MINUTES OF THE MEETING

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

Document No. : NPI-120310-EQP-S1-TD-07
Venue : HLL Biotech Limited, Chennai
Date : 23.12.2014
Project : Integrated Vaccines Complex, Chengalpattu
Attendees : See attached list of attendees
Issued by : CEO HBL
Issued on : 24th December 2014
Issued from : NNE Pharmaplan India Limited, Bangalore

Agenda

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| 1. | Pre-bid Meeting for supply, installation, commissioning and validation of Filtration Systems for IVC, Chengalpattu |
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S. No.	Clarifications on queries	
	TE Doc No: NPI-120310-EQP-S1-TD-07	
A	Discussion Tender Enquiry Document: NPI-120310-EQP-S1-TD-07	
	General Discussion Points	
1.	The timelines for submission of the completed tender is changed from 09/1/2015 to 20/1/2015 .	
2.	The supply schedule is revised and the delivery of the equipment should be with in 6 months from date of the issue of LOA	
	Ultrafiltration System URS/ UF 01	
	URS Point number and excerpt / description of the specification	Point modified as / Comment
3.	Pg 5 of 17, 2.2 System Specification Table 2 - SL NO. 2 – "Capacity/ Size" Should be suitable to hold upto 1 to 7 cassettes of minimum 0.5 or 0.7 m ² cassettes each. The holder should be designed to accommodate and operate with cassettes of other manufacturers with ½ inch sanitary flange.	Pg 5 of 17, 2.2 System Specification Table 2 - SL NO. 2 – "Capacity/ Size" Should be suitable to hold up to 1 to 7 cassettes of minimum 0.5 or 0.7 m ² cassettes each. The holder should be designed to accommodate and operate with cassettes of other manufacturers with 1 inch sanitary flange.
4.	Pg 6 of 17, 2.3 Vessel Specification Table 3- SL NO. 2 Top Closure – Flat Lid	Pg 6 of 17 2.3 Vessel Specification Table 3- SL NO. 2 Top Closure – Torispherical , welded directly to the head of the vessel with hand hole
5.	Pg 6 of 17, 2.4 Vessel design Specification Table 4 - SL NO. 5 Working Temperature Range: 2 °C -134 °C	Pg 6 of 17 2.4 Vessel design Specification Table 4 - SL NO. 5 Design Temperature Range: 2 °C -134 °C
6.	Pg 6 of 17, 2.3 Vessel Specification D. Bottom valve with sampling	Pg 6 of 17, 2.3 Vessel Specification D. Bottom valve with sampling Zero Dead Leg type valve directly welded to vessel bottom centrally, having EPDM diaphragm with sampling diaphragm valve. It should be steam sterilizable type valve.
7.	Pg 6 of 17, 2.3 Vessel Specification E. Feed Line:	Pg 6 of 17, 2.3 Vessel Specification E. Feed Line: Manual Diaphragm Valve- Deleted
8.	Pg 6 of 17, 2.3 Vessel Specification F. Retentate Line: Manual diaphragm valves for fluid flow path sample and drain	Pg 6 of 17, 2.3 Vessel Specification F. Retentate Line Manual diaphragm valves for fluid flow path sample - Point Modified Diaphragm type pressure gauge Deleted Temperature sensor Deleted Pressure Control Valves should be provided- Point Included
9.	Pg 6 of 17, 2.3 Vessel Specification G. Permeate Line:	G. Permeate Line: Mass Flow meter and transmitter[in l/min or l/hr and total volume] Manual diaphragm sampling valve- Deleted Manual control of product flow in permeate must be

S. No.	Clarifications on queries									
		possible- Deleted Diaphragm type pressure gauge- Deleted Pressure Control Valves should be provided- Point Included								
10.	Pg 8 of 17, 2.5 K- Nozzle Schedule: III. Lower wall/Bottom connections:	Pg 8 of 17, 2.5 K- Nozzle Schedule: III. Lower wall/Bottom connections: Port for Flush bottom valve - Point Included Port for bottom mounted magnetic mixer - Point Included								
11.	Pg 12 of 17 6.4- Level of instrumentation <table border="1" data-bbox="288 846 802 969"> <tr> <td>Flow rate</td> <td>Monitor the rate of permeate flow</td> <td>Mass Flow meter with transmitter</td> </tr> </table>	Flow rate	Monitor the rate of permeate flow	Mass Flow meter with transmitter	Pg 12 of 17 6.4- Level of instrumentation <table border="1" data-bbox="858 815 1370 999"> <tr> <td rowspan="2">Flow rate</td> <td>Monitor the rate of permeate flow</td> <td>Mass Flow meter with transmitter</td> </tr> <tr> <td>CVD</td> <td>Peristaltic pump at the inlet of the vessel integrated with PLC</td> </tr> </table>	Flow rate	Monitor the rate of permeate flow	Mass Flow meter with transmitter	CVD	Peristaltic pump at the inlet of the vessel integrated with PLC
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	CVD	Peristaltic pump at the inlet of the vessel integrated with PLC								
12.	Pg no 11 of 17 Point no. 6.1.2 Following parameters shall be controlled by the system : Manual control of product flow in permeate and retentate line	Pg no 11 of 17 Point no. 6.1.2 Following parameters shall be controlled by the system : Auto control of product flow in permeate and retentate line								
13.	6.7.6 Auto Torque hardware for uniform cassette sealing should be provided	6.7.6 Torque hardware for uniform cassette sealing should be provided								
14.	6.7.15 Pump specification: Sterile Sanitary design: Pump rate: 4m ³ /hr @ 4 bar(g)	6.7.15 Pump specification: Sterile Sanitary design: Pump rate: 2m³/hr @ 4 bar(g)								
15.	List of Preferred Makes	Ball Valve (Manual)- Modentic / Alfa Laval / Gemu								
<u>Sterile Filtration Train URS/SFT 01</u>										
16.	2.1 Scope of supply 3/4" SS 316L grade sanitary diaphragm vent valve should be provided in the SS housing system for venting operation.	2.1 Scope of supply 1/2" SS 316L grade sanitary diaphragm vent valve should be provided in the SS housing system for venting operation- Point Modified								
17.	List of Preferred Makes	Included Strip Chart Recorder: Yokogawa / Siemens								



For HLL Biotech Limited

Chief Executive Officer

List of Attendees

Date: 23-Dec-2014
 Client: HLL Biotech Limited
 Venue: HLL Biotech Limited, TICEL Biopark, Chennai
 Project: Integrated Vaccine Complex, Chengalpattu
 Subject: Pre-Bid meeting – Filtration equipment package

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