

**PRE-BID MEETING TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING AND
VALIDATION OF ULTRA FILTRATION AND STERILE FILTRATION SYSTEMS
AT PII, COONOOR**

Document No.: : NPI/110831/EQP/TD/04

Venue: : HLL Lifecare Ltd,

Date: : 31st July 2014

Project: : Revival of DPT group of vaccine manufacturing Facility PII,
Coonoor

Attendees: : See attached list of attendees

Issued By: : CEO HBL

Issued On: : 5th August 2014

Agenda

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| 1. | Pre bid Meeting Tender for Supply, Installation, Commissioning and Validation of Ultra filtration and sterile filtration systems at PII, Coonoor |
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S. No.	Clarifications on queries														
	Tender for Supply , Installation, commissioning and Validation of Ultrafiltration and Sterile filtration systems at PII, Coonoor Doc No: NPI-110831-EQP-TD-04														
A	Discussion on Tender Enquiry Document: NPI/110831/EQP/TD/04														
	General Discussion Points														
1.	There are no changes in terms and conditions of Tender Enquiry Document: NPI-110831-EQP-TD-04														
2.	Last date for the tender submission is extended up to 19th Aug,2014@15:00hrs as per the vendor request.														
Clarifications on URSS															
Sterile Filtration Systems NPI_110831_EQP_URS_B1(D)-SFS 01, NPI_110831_EQP_URS_B1(D)-SFS 02 and NPI_110831_EQP_URS_B2-SFS 01															
	URS Point number and excerpt* / description of the specification *		Point changed as / Comment												
3.	6.4 Level of instrumentation <table border="1"> <thead> <tr> <th>Type of control/test</th> <th>Purpose</th> <th>Instrumentation</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>Monitor and indicate the temperature (during SIP)</td> <td>Temperature probe</td> </tr> </tbody> </table>		Type of control/test	Purpose	Instrumentation	Temperature	Monitor and indicate the temperature (during SIP)	Temperature probe	6.4 Level of instrumentation <table border="1"> <thead> <tr> <th>Type of control/test</th> <th>Purpose</th> <th>Instrumentation</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>Deleted</td> <td></td> </tr> </tbody> </table>	Type of control/test	Purpose	Instrumentation	Temperature	Deleted	
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4.	6.7.4 Steam traps	6.7.4 Steam traps should be provided at the drain line.													
Sterile Filtration Unit NPI_110831_EQP_URS_B1(D)_SFU 01 and NPI_110831_EQP_URS_B2_SFU 01															
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5.	4.1 Desired / Suggested Capacity		4.1 Deleted												
6.	6.2 Failure mode detection Emergency stop activated (manual shut down)		Deleted												
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S. No.	Clarifications on queries																					
Filter Integrity Testing Machine - NPI_110831_EQP_URS_FIM_01																						
8.	<p>4.0 SPECIFIC REQUIREMENT</p> <p>a) The system should include following:</p> <p>e) Pneumatic connections:</p> <p>f) Communication ports:</p> <p>g) Internal printer:</p> <p>h) External printer with:</p> <p>k) Self-test:</p> <p>The system has to be automatically run an internal self-test once per day when it is switched on or when it is initiated by a user at any time. The test shall be saved and can be printed at any time The following conditions shall be checked out during the self-test:</p> <p>o) Preferred makes:</p>	<p>a) v, vi, vii. <u>Deleted</u></p> <p>e) Pneumatic connections:</p> <p>i. Compressed air inlet: Integrity connector nipple</p> <p>ii. Compressed air outlet: Integrity connector coupling</p> <p>iii. <u>Deleted</u></p> <p>f) Communication ports:</p> <p>USB / RS 232 C / Ethernet</p> <p>g) Internal printer:</p> <p>Thermal printer / Dot Matrix Printer to be provided and specifications of printer to be provided by vendor.</p> <p>h) <u>Deleted</u></p> <p>k) Checks <u>(Deleted- Introduction Paragraph)</u></p> <p>o) <u>Deleted</u></p>																				
9.	5.0 OPERATING PARAMETERS	All operating parameters shall be in the range specified or vendor to specify range.																				
Ultrafiltration System -NPI_110831_EQP_URS_B1(D)-UFS 01 and NPI_110831_EQP_URS_B2-UFS 01																						
10.	<p>2.1 Operating Conditions:</p> <ul style="list-style-type: none"> Surface area of the membrane: 5 m2 with a provision to increase the filter area to 10m2 (size of modules) Minimum working Volume: 0.01% of Total Volume 	<p>2.1 Operating Conditions:</p> <ul style="list-style-type: none"> Surface area of the membrane: 0.5 / 0.7m2 with a provision to increase the filter area to 7 m²/14m² (size of modules) Minimum working Volume: 0.5 % of Total Volume 																				
11.	<p>2.2 System Specifications</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Purpose</th> <th>MOC</th> <th>Capacity /Size</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Cassette holder</td> <td>To hold filter cassettes</td> <td>SS316 L</td> <td>5 m2 with a provision to increase the filter area to 10m2</td> </tr> </tbody> </table>	S. No.	Description	Purpose	MOC	Capacity /Size	2.	Cassette holder	To hold filter cassettes	SS316 L	5 m2 with a provision to increase the filter area to 10m2	<p>2.2 System Specifications</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Purpose</th> <th>MOC</th> <th>Capacity /Size</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Cassette holder</td> <td>To hold filter cassettes</td> <td>SS316 L</td> <td>0.5 m²/0.7m² with a provision to increase the filter area to 7m2/14m2</td> </tr> </tbody> </table>	S. No.	Description	Purpose	MOC	Capacity /Size	2.	Cassette holder	To hold filter cassettes	SS316 L	0.5 m ² /0.7m ² with a provision to increase the filter area to 7m2/14m2
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12.	<p>2.3 Vessel Specifications</p> <p>TABLE 2</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Purpose</th> <th>MOC</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Top closure</td> <td>Flat Lid</td> <td>SS316L</td> </tr> </tbody> </table>	S. No.	Description	Purpose	MOC	2.	Top closure	Flat Lid	SS316L	<p>2.3 Vessel Specifications</p> <p>TABLE 2</p> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Description</th> <th>Purpose</th> <th>MOC</th> </tr> </thead> <tbody> <tr> <td>2.</td> <td>Top closure</td> <td>Torospherical</td> <td>SS316L</td> </tr> </tbody> </table>	S. No.	Description	Purpose	MOC	2.	Top closure	Torospherical	SS316L				
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13.	2.5 D. Flush bottom valve	D. Vessel Bottom port																				

S. No.	Clarifications on queries	
14.	<p>I. General characteristics of the Ultrafiltration membrane:</p> <ul style="list-style-type: none"> Filter area of 5 m2 with a provision to increase the filter area to 10m2 Void free composite PES membrane with 0.5M caustic compatibility. <p>Membrane made up of equivalent polymer with above characteristics is optimal for use</p>	<p>I. General characteristics of the Ultrafiltration membrane:</p> <ul style="list-style-type: none"> Filter area of 0.5 /0.7 m2 with a provision to increase the filter area to 7 /14 m2 PES membrane with 0.5M caustic compatibility. <p>Membrane made up of equivalent polymer with above characteristics is optimal for use-<u>Point deleted</u></p>
15.	<p>M. Nozzles Schedule :</p> <p>Top Head Plate</p> <ul style="list-style-type: none"> Port for level sensor with accuracy of ± approx. 0.1% of the total range <p>Lower wall/Bottom connections:</p> <ul style="list-style-type: none"> Port for temperature transmitter 	<p>M. Nozzles Schedule :</p> <p>Top Head Plate</p> <ul style="list-style-type: none"> Port for level sensor <p>Lower wall/Bottom connections:</p> <ul style="list-style-type: none"> <u>Deleted</u>
16.	<p>N. All points of the IRS except the below mentioned would be applicable for the equipment</p>	<p>N. All points of the IRS except the below mentioned would be applicable for the equipment.</p> <ul style="list-style-type: none"> 5.6 -<u>[Point included]</u>
17.	<p>3.2.1 The equipment will be used for concentration of toxoid f) A separate provision to be made for product recovery to flush the module.</p>	<p>3.2.1 The equipment will be used for concentration of toxoid f) A separate provision to be made for product recovery</p>
18.	<p>4.1 Desired/ suggested capacity b) Feed Vessel: 5L (Minimum) and 150L (Maximum working Volume)</p>	<p>4.1 Desired/ suggested capacity b) Feed Vessel: 7.5 L (Minimum) and 150L (Maximum working Volume)</p>
19.	<p>6.1.2 Following parameters shall be controlled by the equipment h) Conductivity</p>	<p>h) <u>Deleted</u></p>
20.	<p>6.2.1 c) Alarm is activated in case Temperature is out of range</p>	<p>6.2.1 c) <u>Deleted</u></p>
21.	<p>6.3.3 Flow measurement on the feed inlet line</p>	<p><u>6.3.3- Deleted</u></p>

S. No.	Clarifications on queries											
22.	<p>6.4 Level of instrumentation</p> <table border="1" data-bbox="240 472 815 875"> <thead> <tr> <th>Parameters</th> <th>Purpose</th> <th>Type of control and Instrumentation</th> </tr> </thead> <tbody> <tr> <td>Conductivity</td> <td>To measure the conductivity during CIP</td> <td>Conductivity meter</td> </tr> <tr> <td>Level of the volume</td> <td>To maintain the correct volume of the product</td> <td>With the accuracy of 0.1% of the completed range.</td> </tr> </tbody> </table>		Parameters	Purpose	Type of control and Instrumentation	Conductivity	To measure the conductivity during CIP	Conductivity meter	Level of the volume	To maintain the correct volume of the product	With the accuracy of 0.1% of the completed range.	<p>6.4 Level of instrumentation</p> <p>Sufficient and suitable instrumentation for the process, safety and productivity control as indicated in the following table:</p> <p>Conductivity- Deleted Level Sensor with the accuracy of 1 % of the completed range</p>
Parameters	Purpose	Type of control and Instrumentation										
Conductivity	To measure the conductivity during CIP	Conductivity meter										
Level of the volume	To maintain the correct volume of the product	With the accuracy of 0.1% of the completed range.										
23.	<p>6.7.6 Pump specification: Sterile Sanitary design</p>		<p>6.7.6 Pump specification: Sterile Sanitary design</p> <p>SIP: Yes <u>[Point Included]</u></p>									
24.	<p>6.7.13 Performance Requirements: Vendor to demonstrate the following during FAT/SAT</p> <ul style="list-style-type: none"> Temperature Control along with the level accuracy to be demonstrated. 		<p>6.7.13 Performance Requirements: Vendor to demonstrate the following during FAT/SAT</p> <p>Deleted</p>									
25.	<p>6.7.14 Design Considerations:</p>		<p>6.7.14 Design Considerations:</p> <ul style="list-style-type: none"> Vessel design Pressure: vendor to specify Vessel design Temperature: vendor to specify Design pressure for safety release valve: vendor to specify 									
26.	<p>List of Preferred Make of components</p> <ul style="list-style-type: none"> Pressure Gauge- WIKA/Denver/Negele Temperature Transmitter – Radix/Yokogawa/ Emerson Steam trap – Spirax Marshall Printer - Canon/Epsilon/HP Vent filter cartridge – Sartorius/PALL/Millipore Filter Housing – Sartorius/PALL/Millipore Flush Bottom valve – Novaseptic/GEMU 		<p>List of Preferred Make of components</p> <ul style="list-style-type: none"> Pressure Gauge- WIKA/Denver/Negele/Anderson Temperature Transmitter – Radix/Yokogawa/ Emerson/Negele Steam trap – Spirax Marshall/Steriflow Printer - Canon/Epson/HP Vent filter cartridge – Sartorius/PALL/Millipore/GE Filter Housing – Sartorius/PALL/Millipore/GE Flush Bottom valve – deleted 									

For HLL Lifecare Limited


CEO

nne pharmaplan®

NNE Pharmaplan India Limited, #12, Achiah Shetty Layout, RMV extn, Bangalore - 80, INDIA

List of Attendees

Date: 31 July 2014
Client: M/s. HLL Lifecare Limited, Chennai
Venue: M/s. HLL Lifecare Limited, Chennai
Project: Revival of DPT Vaccine Manufacturing Facility
Subject: Pre Bid Meeting For Supply, Installation, Commissioning And Validation Of Ultra Filtration Systems And Sterile Filtration Systems

Name	Company	Signature
A. ANTO FELIX	HLL	A. Antofelix
Shilpa Rao	NNE Pharmaplan	Shilpa
K. S. S. S. S.	NNE Pharmaplan	K. S. S. S.
VIGNESHWARAN.T	HLL	Vigneshwaran
D. PONRAJ	MERCK MILLIPORE	D. Ponraj
Deepu Nani	MERCK MILLIPORE	Deepu
Vinay Kumar. K.S.	Pall	Vinay Kumar
Dr. B. SUNDARAN	Passen Institute, Coimbatore	Dr. B. Sundaran 31/7
Dinesh Krishnam	GE Healthcare	D. Krishnam

