
MINUTES OF THE MEETING

**PRE BID MEETING OF TENDER FOR
SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF SEED FERMENTORS AT PASTEUR
INSTITUTE OF INDIA, COONOR**

Document No. : NPI/110831/EQP/TD/01

Venue : HLL Lifecare Limited, Chennai

Date : 30.07.2014

Project : Revival Of DPT group of Vaccine Manufacturing Facility-PII, Coonoor

Attendees : See attached list of attendees

Issued by : CEO HBL

Issued on : 4th Aug 2014

Issued from : NNE Pharmaplan India Limited, Bangalore

Agenda	
1.	Pre-bid Meeting for supply, installation, commissioning and validation of Seed Fermentors at PII, Coonoor

S. No. Clarifications on queries		
Tender for supply, installation, commissioning and validation of Seed Fermentors at PII,Coonor - TE Doc No: NPI-110831-EQP-TD-01		
A Discussion Tender Enquiry Document: NPI-110831--EQP-TD-01		
General Discussion Points		
1.	There is no changes in terms & conditions of this Tender Enquiry Document: NPI-110831-EQP-TD-01	
2.	Last date for the tender submission is extended up to 20th Aug,2014@15:30hrs as per the vendor request.	
S. No. Clarifications on URSS		
B URS: – D-SFR 01, P-SFR 01 _02		
1.	Peristaltic pump specifications. <ul style="list-style-type: none"> • 1 No. for the addition of inoculum – flow rate 300 ml/min • 1 No. for the addition of antifoam – flow rate 30ml/min 	
2.	Agitator specification <ul style="list-style-type: none"> • Top driven- Dry run single mechanical seal • Agitation range: 20-600 rpm 	
3.	Removable type baffles to be provided	
4.	Aeration Supply System(Overlay): Rotameter for Overlay-with data logging (4 to 20 mA output) to be provided	
URS Point number and excerpt* / description of the specification *		Point modified as/Comment
5.	<p>g. Temperature Control: The temperature during fermentation shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, etc) in the jacket with electric heater or steam and a circulation pump. Temperature control during cultivation 35-37 °C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±0.1 °C)</p> <ul style="list-style-type: none"> • The system consists of closed loop pressurized thermostat system with recirculation pump 2 heat exchangers for heating and cooling alternatively which provides a high flow through the hollow vessel jacket and ensures fast temperature control at high accuracy with PT 100 probe (sterilizable). • Electrical heater ,Heat exchanger and steam for cooling water & chilled water for operation temperature • Safety relief valve for jacket • Bourdon type pressure gauge for jacket utility • Pneumatically operated valves for steam and cooling water/ chilled water 	<p>g. Temperature Control: The temperature during fermentation shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, etc) in the jacket with electric heater and a circulation pump. Temperature control during cultivation 35-37 °C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±1 °C)</p> <ul style="list-style-type: none"> • The system consists of closed loop pressurized thermostat system with recirculation pump , heat exchangers for heating and cooling alternatively which provides a high flow through the vessel jacket and ensures fast temperature control at high accuracy with PT 100 probe (sterilizable). • Safety relief valve for jacket • Bourdon type pressure gauge for jacket utility • Pneumatically operated valves for steam and cooling water/ chilled water

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6.	<p>2.0.4. Nozzle schedule :</p> <p>1. Top Lid: 19 mm spare port with septum-1 No</p> <p>2.Upper wall side: Vertical view Glass –Bolted with gasket-1 No Port for sparger -1 No Port for overlay air -1 No</p> <p>3.Lower wall side: 25 mm Spare port-1 No</p>	<p>2.0.4. Nozzle schedule :</p> <p>1. Top Lid: 19 mm spare port with septum-1 No-<u>Deleted</u></p> <p>2.Upper wall side: Vertical view Glass –Bolted with gasket-1 No-<u>Deleted</u> Port for sparger -1 No-<u>Deleted</u> Port for overlay with spray ball -1 No</p> <p>3. Lower wall side: 25 mm Spare port-1 No-<u>Deleted</u></p>																																																												
7.	<p>6.1 Process control</p> <p>vi) Rate of flow of process Air (Overlay and Sparger) vii) Duration of CIP and temperature ,pressure during CIP</p>	<p>6.1 Process control</p> <p>vi) Rate of flow of process Air (Overlay) vii) Duration of CIP and temperature</p>																																																												
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9.	<p>6.7.10 Performance Criteria Required for FAT/SAT</p>	<p>6.7.10 Performance Criteria Required for FAT/SAT-Points included[Only for D-SFR 01]]</p> <ul style="list-style-type: none"> Media hold with process simulation during SAT Thermal mapping during FAT All control system simulation and tuning of control loops All FAT/SAT,IQ,OQ as per IRS 																																																												
10.	<p>URS Annexure 2: List of Preferred Make of components</p> <table border="1"> <thead> <tr> <th>S.NO</th> <th>DESCRIPTION</th> <th>MAKE</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Temperature sensor</td> <td>NEGELE</td> </tr> <tr> <td>10</td> <td>Steam trap</td> <td>STERIFLOW/ITT</td> </tr> <tr> <td>17</td> <td>Spray ball</td> <td>HAKE</td> </tr> <tr> <td>18</td> <td>Diaphragm valve(Manual)</td> <td>GEMU</td> </tr> <tr> <td>21</td> <td>Sampling valve</td> <td>Novaseptic/GEMU</td> </tr> <tr> <td>22</td> <td>Flush bottom valve</td> <td>Novaseptic/GEMU</td> </tr> <tr> <td>29</td> <td>Diaphragm valve(Automatic)</td> <td>GEMU / ITT</td> </tr> <tr> <td>30</td> <td>Angle seat valve(Automatic)</td> <td>GEMU / ITT</td> </tr> <tr> <td>32</td> <td>Heater</td> <td>Common wealth</td> </tr> </tbody> </table>	S.NO	DESCRIPTION	MAKE	5	Temperature sensor	NEGELE	10	Steam trap	STERIFLOW/ITT	17	Spray ball	HAKE	18	Diaphragm valve(Manual)	GEMU	21	Sampling valve	Novaseptic/GEMU	22	Flush bottom valve	Novaseptic/GEMU	29	Diaphragm valve(Automatic)	GEMU / ITT	30	Angle seat valve(Automatic)	GEMU / ITT	32	Heater	Common wealth	<table border="1"> <thead> <tr> <th>S.NO</th> <th>DESCRIPTION</th> <th>MAKE</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>Temperature sensor</td> <td>NEGELE/RADIX</td> </tr> <tr> <td>10</td> <td>Steam trap</td> <td>STERIFLOW/ITT/THERMAX</td> </tr> <tr> <td>17</td> <td>Spray ball</td> <td>HAKE/ALFA LAVAL</td> </tr> <tr> <td>18</td> <td>Diaphragm valve(Manual)</td> <td>GEMU/SED/ITT</td> </tr> <tr> <td>21</td> <td>Sampling valve</td> <td>Novaseptic / Aerre inox</td> </tr> <tr> <td>22</td> <td>Flush bottom valve</td> <td>Novaseptic/GEMU</td> </tr> <tr> <td>29</td> <td>Diaphragm valve(Automatic)</td> <td>GEMU / ITT/SED</td> </tr> <tr> <td>30</td> <td>Angle seat valve(Automatic)</td> <td>GEMU / SED</td> </tr> <tr> <td>32</td> <td>Heater</td> <td>Common wealth / Hot Watt / Next Thermal</td> </tr> </tbody> </table>	S.NO	DESCRIPTION	MAKE	5	Temperature sensor	NEGELE/RADIX	10	Steam trap	STERIFLOW/ITT/THERMAX	17	Spray ball	HAKE/ALFA LAVAL	18	Diaphragm valve(Manual)	GEMU/SED/ITT	21	Sampling valve	Novaseptic / Aerre inox	22	Flush bottom valve	Novaseptic/GEMU	29	Diaphragm valve(Automatic)	GEMU / ITT/SED	30	Angle seat valve(Automatic)	GEMU / SED	32	Heater	Common wealth / Hot Watt / Next Thermal
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For HLL Lifecare Limited



R. Rajan
Chief Executive Officer

nne pharmaplan

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

List of Attendees

Date: 30 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 Seed Fermentors

Name	Company	Signature
K. SRIDHAR BABU	NNE Pharmaplan	K. Sridhar Babu
Shilpa Rao	NNE Pharmaplan	Shilpa Rao V
Dr. B. Sundaran	Pasteur Institute of India Coimbatore	B. Sundaran 30/7/14
R. Srinivasan	SCIGENICS INDIA LTD Chennai	MR. Srinivasan
S. Muthuswamy	Scigenics (I) Pvt Ltd. Chennai	S. Muthuswamy
Rohit Kumar	PRAT HIPURITY SYSTEM	Rohit Kumar
Himesh Mehta	Prat Hipurity System	Himesh Mehta
Renguth. M. C	HLL	Renguth. M. C
Ac. Subhash.	BIOZEEN, More	Ac. Subhash.
Sankhajeet Kole	BIOZEEN	Sankhajeet Kole
K. Anil Kumar	HBL	K. Anil Kumar
Gireesh S.M	HBL	Gireesh S.M
Polina Sreenath	HLL	Polina Sreenath



