

### **MINUTES OF THE MEETING**

### PRE BID MEETING OF TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION OF PRODUCTION SCALE FERMENTOR AT PASTEUR INSTITUTE OF INDIA, COONOOR

Document No. : NPI/110831/EQP/TD/02

Venue : HLL, Ticel Biopark, Chennai

Date : 31.07.2013

Project : Revival of DPT Vaccine Manufacturing Facility, PII,Coonoor

Attendees :

HLL Lifecare Ltd.,	NNE Pharmaplan	PII, Coonoor	Vendors:
Mr. Renjith M C	Dr. Naveen Nagaraj	Dr. B Sekar	Sartorius
Mr. Anto Felix Mr. Vigneshwaran Mr. Sudeep Mr. Shibulal		Mr. B Sundran Mr. Kamaludeen Mr. R Mohan Mr. B Annamalai	<ul> <li>Mr. Sudhir Puri</li> <li>Mr. Sanat Kumar</li> <li>Mr. Prashant</li> <li>Mr. Shivraj</li> </ul> BioEngineering
Mr. Kiruba Sankar Mr. Suresh S Mr. Nagarajan		Ms. Lalitha Ms. Shanthi Mani Dr. K C Shivanandappa	<ul> <li>Mr. S Ramgopal</li> <li>Mr. P K Shankar</li> <li>Biozeen</li> <li>Mr. A C Subhash</li> <li>Mr. Sankhajeet Kole</li> <li>Scigenics India</li> <li>Mr. Charles</li> <li>Mr. P Shankar</li> </ul>

Issued by : Dr. Naveen Nagaraj
Issued on : 1<sup>st</sup> August 2013

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

	Agenda
1.	Pre-bid Meeting for Production Scale Fermentors for PIIC



S. No.	Clarifications on queries				
	Tender for Supply, Installation, commissioning and Validation of Production scale Fermentor at PII, Coonoor: NPI/110831/EQP/TD/02				
Α	Discussion on Tender Enquiry Document: NPI/1	10831/EQP/ TD/02			
	General Discussion Points				
1.	Payment terms have been explained to vendor a conditions with regards to the payment terms will have	and there will be no changes in payment terms. Tender old good.			
2.	Earnest Money Deposit (EMD) to be payable at "Ch	ennai" instead of "Trivandrum"			
3.	In the Tender at the following places, it has been ch a) Pg No:- 20 0f 86 Point no.:- 18.2 b) Pg No.:- 20 of 86 Point no.:- 18.4 c) Pg No:- 86 of 86 Section - XXIII; sched	anged as "Chennai" instead of "Trivandrum".  lule of fiscal aspects - Point No. :- 11			
S. No.	Clarifications on URSs				
	<ul> <li>Diphtheria , Pertussis &amp; Tetanus Fermentori included</li> <li>Diphtheria , Pertussis &amp; Tetanus Fermentors : In harvest</li> <li>Pertussis &amp; Formulation Blending vessel : In the harvest</li> <li>Diphtheria , Pertussis &amp; Tetanus Fermentors, be of forged type</li> <li>Diphtheria , Pertussis &amp; Tetanus Fermentors, mapping shall be performed during FAT with mine Diphtheria , Pertussis &amp; Tetanus Fermentors, Diphtheria media filtration system is not be a para Diphtheria , Pertussis &amp; Tetanus Fermentors, lifting device – Manual type is finalized.</li> </ul>	Pertussis & Formulation Blending vessel:- CIP trolley & art of the supply Pertussis & Formulation Blending vessel:- Mechanical lid , Pertussis & Formulation Blending vessel:- Sterility run			
В	URS: D-FER 01				
4.	Specific revision in the URS				
	URS Point number and excerpt* / description of the specification *	Comment / Point modified as below			
a)	Point 2.03 Temperature control during cultivation 35-37°C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±0.1 °C)	Point 2.03 (i) Temperature control during cultivation 35 °C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±1.0 °C) [Common for URS: P-FER 01, 02 & T-FER 01,02]			
b)	Point 2.03 Vent Line/Exhaust Line Fermentor vent line includes:  a sterile hydrophobic vent filter.	Point 2.03 Vent Line/Exhaust Line Fermentor vent line includes:  a sterile hydrophobic vent filter.[Code 7]			





S. No.			essure control valve	e in vent/exhaust	Bac	ck press	sure control valve i	n vent/exha	ust line
	• £	ne (Also A Ruptu	o mentioned Under pure disc is mounte to relieve excess	ressure control) d on Fermentor					
					[Comm	on for L	JRS: P-FER 01,02 &	T-FER 01,0	2]
c)	Point 2.03 <b>Agitator Shaft seal:</b> Double mechanical dry running seal with Thermo syphon, pressurization shall be by means of sterile air during operation, during seal SIP by means of pure steam.				Point 2.03 <b>Agitator Shaft seal:</b> Double mechanical running seal with Thermo syphon, pressurization shall be by means of sterile air during operation, during seal SIP by means of pure steam.  [Common for URS: P-FER 01,02]				
d)	Flush Bottom Valve: It should be zero dead leg type valve attached directly to the at the bottom of the vessel, with a provision for sterilization. The diaphragm shall be of PTFE type.			Flush Bottom Valve: It should be zero dead leg type valve attached directly to the at the bottom of the vessel, with a provision for sterilization. The diaphragm shall be of EPDM having PTFE coating.  [Common for URS: D-FER 01, P-FER 01,02 & T-FER 01,02, P BLV 01, F1 BLV 01]					
e)	Point 2.04 25 mm Spare port-1 No Automatic back pressure control valve1 No			Automa	Spare po	ort with TC -1 No pressure control valv			
f)	Point 2.04 (2) 25 mm Spare port-1 No				[Comm 01,02]	Spare po non for U	ort-1 No - <i>Deleted</i> JRS: D-FER 01 , P-F	ER 01,02 &	T-FER
	6.4 Level of instrumentation			6.4 Lev	el of ins	strumentation		1	
g)		Pump	To dose inoculum, media, antifoam, acid,	Peristaltic pump(4 Nos)		Pump	To dose inoculum, antifoam, acid, base, etc	Peristaltic pump(4 Nos)	
			base, etc	.100/	[Comm 01,02]	on for U	JRS: D-FER 01 , P-F	ER 01,02 &	T-FER
h)	6.7 Specific Requirements: 6.7.10 .2 Nos of fixed speed Peristaltic pumps are required for Media, Inoculum addition with pump head compatible with the tube size:12x17 mm.				6.7 Spe 6.7.10. required	2 Nos d for	quirements: of fixed speed Pelloculum addition the tube size:12x17	with pump	



S. No.	Clar	ifica	itions on qu	ueries							
			nexure 3: L ents	ist of Preferred	Make of	_	S Ann		ist of Preferred Ma	ake of	
		11	DC source	Shavision/ Yol Emerson	kogawa/		11	DC source Flow	Shavision/ Yokog Emerson/ Seimer	าร	
i)	:	24	Flow switch	Orion/ Wika/Er	merson	_	31	switch Heater	E&H / Negele / W	/	nc
	;	31	Heater	Common weal	th	[Co		n for URS:	D-FER 01 , P-FE		-FER
С	URS	· P-	FERM 01								
5.			revision in	the LIPS							
J.	-			and excerpt* / o	description	of the	Con	nment /			
			ation *	and excerpt / c	aescription	or the		nt modified	l as below		
	2.0.	i	Table -1				2.0.	1. Table ·	-1		
a)			escription	Purpose	MOC			Description	on Purpose	MOC	
	LIDG		Top closure	Torispherical dish	SS316L			Top closure	Flat dish	SS316L	
D 6.			FER 01	Aha UDC							
о.	•		revision in	and excerpt* / c	description	of the	Con	nment /			
			ation *	und execupt 7 c	accomplion	or the	Point modified as below				
	Poin	t No	:- 2.0.3.				Poir	nt No:- 2.0.3	3.		
a)	cons	sists	of Overlay	Nitrogen Supply Line with Proces e of 2-50 LPM			f. <b>Process air and Nitrogen Supply System</b> system consists of Overlay and Sparger Line with Process air and Nitrogen gas with the flow rate o 2-50 LPM.				
D	URS	: P-	BLV 01								
7.			revision in								
			int number ation *	and excerpt* / c	description	of the		nment / nt modified	l as below		
a)	Point 2.03 h) Temperature Control: The temperature during blending shall be controlled via circulation of utilities (plant steam, Cooling water, Chilled water, etc) in the jacket with electric heater and steam and a circulation pump. Temperature control during blending should be 30 °C (tolerance limit: ±0.1 °C) & during sterilization (tolerance limit: ±0.1 °C)  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				h) durid	system courses fast to PT 100 pro Safety relie Bourdon ty Pneumatica	terilization (tolerand consists of hollow vemperature control obe (sterilizable). If valve pe pressure gauge ally operated valve ter/ chilled water	ce limit: ±1 °C  ressel jacket at high accord  for jacket uti	C) t and uracy ility		



S. No.	Clarifications on queries	
	cooling water & chilled water for operation temperature  Safety relief valve  Bourdon type pressure gauge for jacket utility  Pneumatically operated valves for steam and cooling water/ chilled water	
b)	3.3 Output & Discharging method  The blended bacterial mass is collected in sterile bottles (under LAF) and stored in cold room.	3.3 Output & Discharging method  The blended bacterial mass is collected in sterile bottles and stored in cold room.  Note:- Vendor to provide the suitable sterile connection for harvesting the bacterial mass in multiple numbers of Nalgene bottles and provision to be made for independent SIP for the harvest line.
c)	Point 6.7.11  1 No of fixed speed Peristaltic pump is required for the recirculation of blending solution into the blending vessel @ rate of 280 L/hr with the pump head compatible with the tube size :9.6/14.4 mm	Point 6.7.11 Point deleted
D	URS: F1-BLV 01	
8.	Specific revision in the URS	
	URS Point number and excerpt* / description of the	Comment /
	specification *	Point modified as below  Point 2.03 (d)
a)	Point 2.03 (d)  Dosing Unit for saline: The Saline will be added to the Blending vessel through sterile valve assembly by	Dosing Unit for saline: The Saline will be added to the Blending vessel through sterile valve assembly by pressure transfer. 0.45 μ on line
	pressure transfer. 0.45 $\mu$ on line sterile filter unit should be provided in the inlet line for the clarification of the saline.	sterile filter unit should be provided in the inlet line for the clarification of the saline. (SS housing [suitable for SIP] with reusable liquid filter 0.45 micron code 7.)
	be provided in the inlet line for the clarification of the	for the clarification of the saline. (SS housing [suitable for SIP] with reusable liquid filter 0.45
b)	be provided in the inlet line for the clarification of the saline.	for the clarification of the saline. (SS housing [suitable for SIP] with reusable liquid filter 0.45



# nne pharmaplan°

S. No.	Clarifications on queries	
	temperature Safety relief valve Bourdon type pressure gauge for jacket utility Pneumatically operated valves for steam and cooling water/ chilled water	

For HLL Lifecare Limited

**Vice President (Projects)** 



## LIST OF ATTENDEES

PROJECT : REVIVAL OF DPT VACINE MANUFATURING FACILITY PII, COONOOR

DATE : 31<sup>ST</sup> JULY '13

CLIENT : M/S PASTEUR INSTITUTE OF INDIA, COONOOR

VENUE : M/S HLL LIFECARE LIMITED, CHENNAI

SUBJECT: PREBID MEETING - PRODUCTION SCALE FERMENTOR PACKAGE

SL NO	NAME	COMPANY	SIGNATURE
j.	VIGNESHILLARAN T	HLL LIFECARE LID	- agunt
2	R. MOHAN	P.I.Z. COONDOR	A 31/07/13
3	B. ANNAMALAS	P.J.I. COONDER	Pet Paris
4.	Dr. B. SEKAR	P. I. T. Croncor	31/2/13
5.	B. SUNDARAN	P.11. Cooner	Sq won
6.	Sudie fini	Sartorius	Bul 3/7
7	Sanat Kumal	Sartonius	Psterd
8	Prashant	Santonius	Byot
9	Shirlag	Santonius	&. Brit
10	S. RAMMOPAL	BURNAINETRINA AG	1.2H
11	P. K. Shankar	Bio Engineerry Ac	Thunh
12	SHANTHI MAN)	PAI COONDOR	B.O. 31/7/1
3	KAMALUDEEN	PII - COONOOR	4/2/1/2
14	Mrs. T. LALITHA		/
15	Dr. K.C. Shivamando		13
16	P. Shankaa	Scigeries maia	6-4-31/2/12





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DATE

31<sup>ST</sup> JULY '13

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VENUE

M/S HLL LIFECARE LIMITED, CHENNAI

SUBJECT

PREBID MEETING - PRODUCTION SCALE FERMENTOR PACKAGE

SL NO	NAME	COMPANY	SIGNATURE
17	M. charles	Scipunics Inda	M. Am
18	Sudeep:B	Sciquenics Inda. Hu lifecare Hd	- July 317113
19.	Shibulal.	HLl life cone Ud	· Etters.
20.	Sankhajeet Kole	BIOZEEN	31/7/2013
21.	A.C. SURSHMISH	Prioreen.	Sty 04/13.
22.	S. SURESH.	HBL, Chennaa=	y. 12 0
23.	R. KIRUBA SANKAR	HBC Chemai	2. Durists
24	DR. NAVEEN NAGARAT	NNEPHORMAPLAN	tancer
25.	A. ANTO FECIX	HLL life cane	A. A. tylela
26.	Remite MC	HLL	sal
	U		
Z S			