

MINUTES OF THE MEETING

**PRE BID MEETING OF TENDER FOR
 SUPPLY, INSTALLATION, COMMISSIONING AND VALIDATION
 OF FABRICATION EQUIPMENT PACKAGE-II AT HLL BIOTECH LIMITED, CHENGALPATTU**

Document No. : NPI-120310-EQP-S1-TD-16

Venue : HLL Biotech Limited, Chennai

Date : 02.06.2016

Project : Integrated Vaccines Complex, Chengalpattu

Attendees : See attached list of attendees

Issued by : HBL

Issued on : 10.06.2016

Agenda	
1.	Pre-bid Meeting for Fabrication Equipment - II for IVC, Chengalpattu

S. No.	Clarifications on queries
	Tender for Supply , Installation, commissioning and Validation of Fabrication equipment package - II at HLL Biotech limited, Chengalpattu : NPI-120310-EQP-S1-TD-16
A	Discussion on Tender Enquiry Document: NPI-120310-EQP-S1-TD-06

1. The last date for the tender submission has been extended till **05th July 2016; 03:00 PM** and the tender opening will be on **05th July 2016; 03:30 PM**

Revised NIT shall be read as

Sch no. /Name	Equipment Name	Equipment ID	Capacity (W.V)	Qty. [no.]	EMD in INR	
I	Bio-waste Inactivation System	Collection Tank- Rabies	B4-COL-01	1.5KL	1	2,80,000/-
		Kill tank - Rabies	B4-KIL-01	0.5KL	1	
		Collection Tank- Multiple Bacterial	B1-COL 01	6 KL	1	
		Kill Tank- Multiple Bacterial	B1-KIL-01, B1- KIL-02	1KL	2	
II	CIP system & Process Vessels	Centralized CIP Station	B1-CCP-01	300 L	1	28,22,000/-
			B1-CCP-02	400 L	1	
		CIP Vessel for Lyophiliser	F1-LCT 01	3000 L	1	
		CIP Vessel for Lyophiliser	F4-LCT 01	2000 L	1	
		Mobile CIP system	B1-MCIP 01	500 L	1	
		Mobile CIP Trolley	B1-CIT 01	-	1	
			B1-CIT 02	-	1	
			B1-CIT 03		1	
			R1-CIT 01	-	1	
			F4 - CIT-01		1	
		Media Preparation Vessel	F4-MPV 01	40 L	1	
			B1-MPV 01	400 L	1	
			B1-MPV 02	500 L	1	
			R1-MPV 02	100 L	1	
			F4-BPV 01	40 L	1	
		Buffer Preparation Vessel	B1-BPV 01-02	600 L	2	
			B1-BPV 03	500 L	1	
			B1-HRV 01	1200 L	1	
		Harvest Vessel	B1-HRV 02	500 L	1	
			B1-SLV 01-03	600 L	3	
		Sub-lot Vessel	B1-ADS 01-03	600 L	3	
		Adsorption & desorption Vessel	B1-DDS 01	600 L	1	
		Holding vessel	B1-HDV 01	1200 L	1	
			B1- KCV 01	1200 L	1	
			B1-BHV 01-02	200 L	2	
			B1-PVE 01	1000 L	1	
		Pressure vessel	B1- PVE 02	500 L	1	
R1- PRV 01-02	100 L		2			
R1- PRV 03-04	50L		2			
R1- PRV 05-08	20L		4			
R1- PRV 09-	10L		6			

S. No.		Clarifications on queries			
			14		
			R1- PRV 15-20	5L	6
			F4-PRV-01-02	50 L	2
		Aerosol Preparation Vessel	B1- APV 01	200 L	1

Page 38/90 (Payment terms shall be read as)

21.1 Payment Terms:

A) Payment for Domestic Goods or Foreign Origin Located within India.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) Advance

An advance of 10% of the contract value shall be released against Bank guarantee equivalent to 110% of the advance amount and submission of 5% of the contract value as Security Deposit/ Performance Security in the form of Bank Guarantee from any scheduled commercial bank. The advance bank guarantee shall be valid for a period up to the completion of the contract.

b) Design Qualification Approval:

10% of the contract value shall be released against approval of DQ and submission of Proforma invoice.

c) On delivery at site:

60 % of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Dispatch Clearance from Purchaser or authorized agent
- (v) Inspection certificate issued by the nominated Inspection agency, if any.
- (vi) Certificate of Country of origin.

d) On Installation Qualification(IQ) & Submission of IQ report by purchaser
 5% of the contract value.

e) On Operational Qualification(OQ) & Submission of OQ report by purchaser
 5% of the contract value.

f) On validation and Final Acceptance Certificate by Purchaser:

Balance 10 % payment would be made against **Final Acceptance Certificate approved by the purchaser** as per the Proforma mentioned in Section XVIII of this tender document to be issued by the consignee/ purchaser subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

4.

The revised delivery timelines are as follows

Schedule-I: 5 (Five) months from date of issue of PO

Schedule-II: 6 (Six) months from date of issue of PO

Installation, Commissioning and validation shall be done within 2 months from the date of delivery of the equipment.

S. No.	Clarifications on queries																						
5.	<p>Section – IX</p> <p>Qualification Criteria (For every schedule Quoted) (Points 2 and 4 shall be read as)</p> <p>Point 2:</p> <p>a. Following clarification has been provided to the vendors for the minimum eligibility criteria of Schedule-I. The Tenderer should have supplied, installed and commissioned successfully at-least (Schedule-I: 1 No. of 2KL Bio-Waste Inactivation System) i.e Total volume of the tanks to be considered as 2KL (for example: 1KL collection tank and 1KL kill tank).</p> <p>b. The Tenderer should have supplied, installed and commissioned successfully at-least For Schedule II : 2 no.s of 200 Lts CIP systems and 2 no.s each of 100 Lts, 200 Lts, 500 Lts and 1000 Lts of Process vessels in the field of Bio-Pharma / Pharma / Human Vaccine in the last Seven financial years from the date of Tender Opening. Client's Completion certificate/Purchase Order/Service Report for the same has to be attached. List-out the experience under section C.</p> <p>Point 4:</p> <p>c. The average annual turnover of the tenderer must be minimum Sch – I: INR. 70 Lakhs Sch – II: INR. 911 Lakhs</p>																						
B	General Discussion Points																						
1.	All Diaphragm valves shall be of forged type for all the schedule.																						
2.	<p>Vendor shall include the following as a part of schedule-II,</p> <p>A. Details of silicone braided flexible hoses[SIPble,Food grade, Pt –cure,sanitary type)</p> <table border="1" data-bbox="188 1209 1481 1406"> <thead> <tr> <th>Length</th> <th>Spec.</th> <th>Hep.B block</th> <th>Hib block</th> <th>BCG Block</th> <th>MR Block</th> </tr> </thead> <tbody> <tr> <td>1mtr</td> <td rowspan="3">1" TC end</td> <td>5 no.s</td> <td>2 no.s</td> <td>2 no.s</td> <td>2 no.s</td> </tr> <tr> <td>2mtr</td> <td>25 no.s</td> <td>10 no.s</td> <td>8 no.s</td> <td>3 no.s</td> </tr> <tr> <td>3mtr</td> <td>20 no.s</td> <td>10 no.s</td> <td>4 no.s</td> <td>-</td> </tr> </tbody> </table> <p>B. End connection All counter flange/ferrule with TC clamp & gasket to be provided for all the equipment.</p>	Length	Spec.	Hep.B block	Hib block	BCG Block	MR Block	1mtr	1" TC end	5 no.s	2 no.s	2 no.s	2 no.s	2mtr	25 no.s	10 no.s	8 no.s	3 no.s	3mtr	20 no.s	10 no.s	4 no.s	-
Length	Spec.	Hep.B block	Hib block	BCG Block	MR Block																		
1mtr	1" TC end	5 no.s	2 no.s	2 no.s	2 no.s																		
2mtr		25 no.s	10 no.s	8 no.s	3 no.s																		
3mtr		20 no.s	10 no.s	4 no.s	-																		

S. No. Clarifications on queries

List of preferred make of components present in URS is revised and the Following table shall be used as **URS Annexure for List of preferred make of components** for all the equipment of this tender [Schedule I & II]

3.

S. No	Description	Make
1.	Actuated Piston Valve	Gemu/Saunders(Crane)/Burkert
2.	Air pressure regulator	Festo/SMC/Janatics / Pnuemax
3.	Angle seat valve(Automatic)	Gemu / SED / Burkert /Saunders(Crane)
4.	Ball Valve	President/ Modentic/ fluidline / Micro pneumatic
5.	Ball valve(Manual)	Modentic/Saunders/Alfa laval
6.	Centrifugal Pump	Grundfos / Alfalaval / Inoxpa
7.	Conductivity sensor	Metler Toledo/E+H / Yokogawa
8.	Diaphragm Valve (Manual)	Gemu / Saunders /Burkert / SED
9.	Diaphragm valve(Automatic)	Gemu / SED / Burkert /Saunders
10.	Dosing metering pump	Prominent/ Masterflex
11.	DP sensor	E+H/Rosemount /Emerson/Negele
12.	DP transmitter	E+H/Rosemount /Emerson/Negele
13.	Electrical Tracing for Vent Filter	PALL/ Thermon/Heaton
14.	Filter Integrity Connector	Sartorius/ Pall/ Millipore
15.	Filter housing	Sartorius/ PALL/Millipore
16.	Flexible hose	BBS/ AMI Polymer / Venair / Saint Gobian
17.	Float Trap	Spirax/ Steriflow/ ITT
18.	Flow Switch	Negele/Davis instruments / E&H / Danfoss
19.	Flush bottom valve	GEMU / Novaseptic
20.	FRL	Janatics/ Festo/ Ingersoll
21.	Pressure Gauge	Forbe marshal/ wika/ waaree instruments / Baumer
22.	Lamp	PAPENMEIER/L.J.Star
23.	Level Sensor	E&H/WIKA/Emerson
24.	Level transmitter	E&H/WIKA/Emerson
25.	Load Cell	Mettler Toledo / Sartorius

S. No.	Clarifications on queries	
26.	Magnetic Mixer	Novaseptic / Roplan
27.	NRV	Leader/ alfalaval / Modentic / President
28.	Operator Interface/HMI	Allen Bradley/ Siemens
29.	PLC	Allen Bradley/ Siemens
30.	pH sensor	Mettler Toledo / E&H
31.	Conductivity Sensor	Mettler Toledo / E&H
32.	PLC with IO Modules and HMI touch Panel	Allen Bradley/ Siemens
33.	PRV[sanitary]	ITT / Spirax / Jordan / Forbes Marshall
34.	Printer (Colour Laser Jet)	Epson / Canon / HP
35.	PC (23 inch)	HP / Dell
36.	Rupture Disc	FIKE/ZOOK
37.	Sampling valve	GEMU / Burkert /Saunders/Novaseptic
38.	Safety Relief Valve for jacket	Teleflo/ herose/ ciprani Harrison / Forbes Marshall / Mascon / Fainger Lesser / Inoxpo
39.	SCADA	Siemens / Schindler
40.	Spray Ball	HAKE/Lechler / Alfa laval
41.	Steam trap	Steriflow/spirax marshall
42.	Centrifugal Pump[for Sch-I & II]	Grandfus/Alfa Laval
43.	Temperature sensor	NEGELE /Emerson/Wika / Radix
44.	Temperature sensor, PT 100 (For Vessel)	Negele/Radix/E&H/Rose mount
45.	Temperature transmitter	Radix/ Yokogawa/Emerson
46.	Top Driven Agitator[only for sch-I)	Inoxpa / IKA / PRG / Thermotech / GMM
47.	Variable Frequency Drive	Siemens/ABB/ Allen Bradley / Danfoss
48.	Vent Filter Cartridge	Sartorius/ Pall/ Millipore

S. No.	Clarifications on URSs	
C	URS: Bio-waste Inactivation System (URS-BIS 01)	
	Specific revision in the URS	
	URS Point number and excerpt* / description of the specification *	Point modified as / Comment
1.	<p>Point no: 2.2.2, a Air supply: The collection tank shall have a sterile grade 0.22µ (absolute) hydrophobic filter with SS housing.</p>	<p>Point no: 2.2.2, a Air supply: The collection tank shall have a sterile grade 0.22µm (absolute) hydrophobic filter with SS housing along with heating element[electrical tracing] 2 nos. of 10 inch housing for 6 KL tank and 1 no. of 10 inch housing for 1.5 KL tank</p>
2.	<p>Point no: 2.2.2, c Pumps: 2 nos of submerged cutter pumps shall be provided in the collection tank to transfer the bio-waste in the kill tank. The pumps shall be controlled by a feedback control loop, the feedback for which is obtained from the level sensors.</p>	<p>Point no: 2.2.2, c Pumps: [1W+1S] 2 nos. of centrifugal pumps for 6 KL tank and [1W+1S] 2 nos. of Centrifugal pumps for 1.5 KL shall be provided in the collection tank to transfer the bio-waste into the kill tank. The pumps shall be controlled by a feedback control loop, the feedback for which is obtained from the level sensors.</p>
3.	<p>Point no: 2.2.3, c Addition: Shell Design pressure: Vendor to specify Jacket design pressure: Vendor to specify</p>	
4.	<p>Point no: 2.2.4, d Agitation system: The Kill tank shall be designed with a top-mounted mechanical driven agitation system with a fixed speed geared motor. A single dry mechanical seal shall be provided to the agitator. The Kill tank shall be provided with a removable, height adjustable propeller turbine impeller suitable for mixing and good heat transfer.</p>	<p>Point no: 2.2.4, d Agitation system: The Kill tank shall be designed with a top-mounted mechanical driven agitation system with a variable speed geared motor (with VFD). A single dry mechanical seal shall be provided to the agitator. The Kill tank shall be provided with a removable, height adjustable propeller turbine impeller suitable for mixing and good heat transfer. [2W+2S] 4 nos. of centrifugal pumps for 2 nos. of 1 KL tank shall be provided in the discharge.</p>
5.	<p>Point no: 6.4, Level of instrumentation Temperature and pressure instrumentation provided for kill tank shall be able to monitor, control and record the parameters</p>	
6.	<p>Point no: 6.7.1.4 Addition: Port for pressure gauge – 1 no.</p>	
7.	<p>Point no: 6.7.3 Addition: Isolation valves shall be provided for the vent filters</p>	
8.	<p>Point no: 6.7.3 Addition: Piping between collection tank and kill tank will be in vendor scope.</p>	


S. No.	Clarifications on URSSs																							
D																								
URS: Centralized CIP System (URS/CCP 01)																								
1.	Point no: 2.0 The Skid mounted CIP station with integrated Supply pump, Lockable castor wheels, Heat exchanger, Process vessel, HMI, valves, instrumentation and control panel with following features:	Point no: 2.0 The Skid mounted fixed CIP station with integrated Supply pump, Heat exchanger, Process vessel, HMI, valves, instrumentation and control panel with following features:																						
2.	Point no: 2.0, M Addition: CIP Transfer rigid piping from CIP station to process vessels will be in HBL's scope however any required auto valves & manual valves (2 way or zero dead leg), handshakes (including fermenters and all vessels in Hep B & Hib area), pneumatic tubing, wiring, etc., will be in vendor scope																							
3.	Point no: 6.4 <table border="1"> <tr> <td>pH & Conductivity</td> <td>To monitor, control and record the Conductivity</td> <td>pH and Conductivity sensor and transmitter</td> </tr> </table>	pH & Conductivity	To monitor, control and record the Conductivity	pH and Conductivity sensor and transmitter	Point no: 6.4 <table border="1"> <tr> <td>Conductivity</td> <td>To monitor, control and record the Conductivity</td> <td>Conductivity sensor and transmitter</td> </tr> </table>	Conductivity	To monitor, control and record the Conductivity	Conductivity sensor and transmitter																
pH & Conductivity	To monitor, control and record the Conductivity	pH and Conductivity sensor and transmitter																						
Conductivity	To monitor, control and record the Conductivity	Conductivity sensor and transmitter																						
E																								
URS: Mobile CIP system (URS/MCP 01)																								
1.	Point no: 6.1.7 pH (0-14)	Deleted																						
2.	Point no: 6.4 pH	Deleted																						
F																								
URS: Mobile CIP Trolley (URS/CIT 02) B1 CIT 01_02																								
Pg No. 1 :- Qty and equipment list has been modified																								
1.	<table border="1"> <thead> <tr> <th>URS Doc #</th> <th>Block Code</th> <th>Area</th> <th>Identification #</th> <th>Qty (Nos)</th> <th>Capacity(WV)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">URS/CIT 02</td> <td>B1</td> <td>Multiple Bacterial Block-HepB</td> <td>B1-CIT 01</td> <td>1</td> <td>NA</td> </tr> <tr> <td>B1</td> <td>Multiple Bacterial Block-HepB</td> <td>B1-CIT 02</td> <td>1</td> <td>NA</td> </tr> <tr> <td>B1</td> <td>Multiple Bacterial Block-Hib</td> <td>B1-CIT 03</td> <td>1</td> <td>NA</td> </tr> </tbody> </table>		URS Doc #	Block Code	Area	Identification #	Qty (Nos)	Capacity(WV)	URS/CIT 02	B1	Multiple Bacterial Block-HepB	B1-CIT 01	1	NA	B1	Multiple Bacterial Block-HepB	B1-CIT 02	1	NA	B1	Multiple Bacterial Block-Hib	B1-CIT 03	1	NA
URS Doc #	Block Code	Area	Identification #	Qty (Nos)	Capacity(WV)																			
URS/CIT 02	B1	Multiple Bacterial Block-HepB	B1-CIT 01	1	NA																			
	B1	Multiple Bacterial Block-HepB	B1-CIT 02	1	NA																			
	B1	Multiple Bacterial Block-Hib	B1-CIT 03	1	NA																			
2.	Point no. 2.0 The skid consists of Centrifugal pump with variable frequency drive, Pneumatic diaphragm valves, Flow Switch, Conductivity sensor, interconnecting SS pipes and flexible hoses for connection between the inlet/ outlet of vessel.	Point no. 2.0 The skid consists of Centrifugal pump with variable frequency drive, Pneumatic diaphragm valves, Flow Switch, Conductivity sensor and flexible hoses for connection between the inlet/ outlet of vessel.																						
3.	Point no: 6.4 pH	Deleted																						

S. No.	Clarifications on URSs					
4.	Point no: 6.5.3 HMI should be provided		Point no: 6.5.3 This equipment will be controlled with subjected vessel PLC / HMI. One junction box shall be provided to transfer the input & output signals to subjected vessel. (vendor to provide 2 sets of extra connectors/adaptors for each equipment as a spare)			
5.	Point no: 6.7.3 All the flexible piping used for cleaning services should be of SS re-enforced and PTFE lined to withstand pressure, temperature.		Deleted			
6.	Point no: 6.7.4 Solvent may be used for cleaning hence all electrical connection /accessories should be flame proof.		Deleted			
7.	Point no: 6.7.8 Flow rate: 6-8 m ³ / h (Vendor to specify)		Point no: 6.7.8 Flow rate: Vendor to specify			
8.	Point no: 6.7.9 From user point to the equipment, food grade SIPable flexible hose (2 m, 2 nos) with 1 inch TC end should be provided for all vessels.		Deleted			
9.	Point no: 6.7.10 From the equipment to the drain, food grade SIPable flexible hose (3 m, 2 nos) with 1 inch TC end should be provided for all vessels.		Deleted			
10.	Point no: 6.7.11 (Addition) Equipment shall be designed to pass through the pass box of size (L 900 x W 900 x H 900) mm					
G URS: Mobile CIP Trolley (URS/CIT 03)						
Pg No. 1 :- Qty and equipment list has been modified						
1.	URS Doc #	Block Code	Area	Identification #	Qty (Nos)	Capacity(WV)
	URS/CIT 03	R1	Measles and Rubella Bulk Block	R1-CIT-01	1	NA
		F4	BCG Bulk and Formulation block	F4-CIT 01	1	NA
2.	Point no. 2.0 The skid consists of Centrifugal pump with variable frequency drive, Pneumatic diaphragm valves, Flow Switch, Conductivity sensor, interconnecting SS pipes and flexible hoses for connection between the inlet/ outlet of vessel.			Point no. 2.0 The skid consists of Centrifugal pump with variable frequency drive, Pneumatic diaphragm valves, Flow Switch, Conductivity sensor and flexible hoses for connection between the inlet/ outlet of vessel.		
3.	Point no: 6.7.6 Solvent may be used for cleaning hence all electrical connection /accessories should be flame proof.			Deleted		

S. No.	Clarifications on URSs											
4.	Point no: 6.7.10 Flow rate: 6-8 m ³ / h (Vendor to confirm)	Point no: 6.7.10 Flow rate: Vendor to specify										
5.	Point no: 6.7.11 From user point to the equipment, food grade SIPable flexible hose (2 m, 2 nos) with 1 inch TC end should be provided for all vessels.	Deleted										
6.	Point no: 6.7.12 From the equipment to the drain, food grade SIPable flexible hose (3 m, 2 nos) with 1 inch TC end should be provided for all vessels.	Deleted										
H	URS: Process Vessels (URS/V_02)											
	Pg # 1:- the capacity has been modified for the followings,											
	Media Preparation Vessel											
	<table border="1"> <thead> <tr> <th>Block Code</th> <th>Area</th> <th>Identification #</th> <th>Quantity(Nos)</th> <th>Capacity L (W.V.)</th> </tr> </thead> <tbody> <tr> <td>F4</td> <td>BCG Bulk and Formulation</td> <td>F4-MPV-01</td> <td>1</td> <td>40</td> </tr> </tbody> </table>	Block Code	Area	Identification #	Quantity(Nos)	Capacity L (W.V.)	F4	BCG Bulk and Formulation	F4-MPV-01	1	40	
Block Code	Area	Identification #	Quantity(Nos)	Capacity L (W.V.)								
F4	BCG Bulk and Formulation	F4-MPV-01	1	40								
	Buffer Preparation Vessel											
	<table border="1"> <thead> <tr> <th>Block Code</th> <th>Area</th> <th>Identification #</th> <th>Quantity(Nos)</th> <th>Capacity L (W.V.)</th> </tr> </thead> <tbody> <tr> <td>F4</td> <td>BCG Bulk and Formulation</td> <td>F4-BPV-01</td> <td>1</td> <td>40</td> </tr> </tbody> </table>	Block Code	Area	Identification #	Quantity(Nos)	Capacity L (W.V.)	F4	BCG Bulk and Formulation	F4-BPV-01	1	40	
Block Code	Area	Identification #	Quantity(Nos)	Capacity L (W.V.)								
F4	BCG Bulk and Formulation	F4-BPV-01	1	40								
	Mobile Hot water Recirculation System -B1- HRS 01[1qty]-deleted											
	<table border="1"> <thead> <tr> <th>Block Code</th> <th>Area</th> <th>Identification #</th> <th>Quantity(Nos)</th> <th>Capacity L (W.V.)</th> </tr> </thead> <tbody> <tr> <td>B1</td> <td>Multiple Bacterial Bulk-HepB</td> <td>B1- HRS 01</td> <td>0</td> <td>-</td> </tr> </tbody> </table>	Block Code	Area	Identification #	Quantity(Nos)	Capacity L (W.V.)	B1	Multiple Bacterial Bulk-HepB	B1- HRS 01	0	-	
Block Code	Area	Identification #	Quantity(Nos)	Capacity L (W.V.)								
B1	Multiple Bacterial Bulk-HepB	B1- HRS 01	0	-								
2.	Point no: 2.1.4 Temperature Control: The temperature during preparation should be controlled via circulation of utilities (plant steam, cooling water, chilled water etc.) in the jacket. Temperature control during preparation (tolerance limit: ± 2 °C) & during sterilization the temperature should be 122 °C (tolerance limit: ± 1 °C)	Temperature Control: The temperature during preparation should be controlled via circulation of utilities (plant steam, cooling water, chilled water etc.) in the jacket. Temperature control during preparation (tolerance limit: ± 2 °C) & during sterilization the temperature should be 122 °C (tolerance limit: ± 1 °C) KSCN vessel and Desorption vessel to be provided with closed loop temperature control system (inbuilt) with heat exchanger to maintain the temperature of 37 deg.C with tolerance of +/- 1 °C										
3.	Heading no: 2.2	Deleted										
4.	Point no: 6.7.8 Addition Each equipment will be having individual HMI and Common PLC as specified in the vessel design specifications. These Common PLCs to be connected to the common SCADA of each facility i.e Hep-B and Hib. The SCADA PC will be placed in the same floor. Any required boosters, cabling, conduit, router switch and other accessories will be in vendor scope. Audit trial also shall be available in HMI SCADA shall be used for collecting the data from all PLCs and to take the printouts. Vendor to provide the Laser colour printer, UPS for PC , monitor of size not less than 23 inch.											
5.	Point no: 6.7.9 Addition- Vendor to provide the cartridges along with housings											

S. No.	Clarifications on URSSs				
I					
Annexure-I: Vessel design specification & Layout Reference					
1.	Point no: 8 Addition port (TC type) (one addition port & one spare port)	Point no: 8 Addition port (TC type) with 4 way valve group (one addition port & one spare port)			
2.	Point no: 12- Rupture disc has been replaced with Safety relief valve.				
3.	#	Aerosil Prep. Vessels	#	Aerosil Prep. Vessels	
	2	Type of vessel Fixed	2	Type of vessel Mobile	
	32	PLC Common PLC with adsorption vessels	32	PLC Independent PLC	
4.	Mobile Hot water Re-circulation system		Deleted		
5.	#	Media & Buffer Prep. Vessels F4-MPV 01 F4-BPV 01	#	Media & Buffer Prep. Vessels F4-MPV 01 F4-BPV 01	
	3	Max. working volume, L 30	3	Max. working volume, L 40	
	32	PLC No	32	PLC Yes (dedicated)	
6.	30	Level of automation	30	Level of automation Automatic – ESIP, FSIP, CIP Semiautomatic – Harvest & Transfers	
J					
URS: Pressure vessels[URS/PRV_2]					
Pg #1: qty has been added					
1.	Block Code	Area	Identification #	Quantity (No.)	Capacity (WV)
	R1	Measles and Rubella Bulk block	R1-PRV-01	2	100 L
			R1-PRV-02	2	50 L
			R1-PRV-03	4	20 L
			R1-PRV-04	6	10 L
			R1-PRV-05	6	5 L
	F4	BCG Bulk & Formulation block	F4-PRV-01_02	2	50L




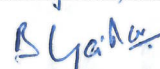
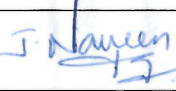


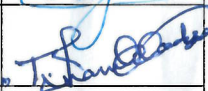



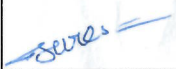
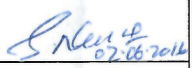


For HLL Biotech Limited


 10/6/16

Senior Manager – Procurement

List of Attendees

Date: 02-June-2016
 Venue: HBL, TICEL Biopark, Chennai
 Project: Integrated Vaccine Complex, HBL, Chengalpattu
 Subject: Pre-Bid Meeting for supply, installation, commissioning and validation of Fabrication Equipment Package-IVC

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