

MINUTES OF THE MEETING

PRE BID MEETING OF TENDER FOR SUPPLY, INSTALLATION, COMMISSIONING & VALIDATION OF CONTINUOUS CENTRIFUGE AT HLL BIOTECH LIMITED, CHENGALPATTU, CHENNAI

Document No. :

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NPI-120310-EQP-S1-TD-19

Venue

HLL Biotech Limited, Chennai

Date

19.01.2016

Project

Integrated Vaccines Complex, Chengalpattu

Attendees

See attached list of attendees

Issued by

Mr. Raman K Ramachandran (CEO)

Issued on

29.01.2016

Issued from

HLL Biotech Limited, Chennai, NNE Pharmaplan India Limited, Bangalore.

Agenda

1.

Pre-bid Meeting of Continuous Centrifuge for IVC, Chengalpattu

Α	Clarification on Commercial Queries	
	Clause in Tender Document	Point modified as/ Comment
		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:
	Clause 21 & Section XXIII: Terms and Mode of Payment	10% of the contract value shall be released against approval of DQ and submission of Proforma invoice.
1.		c) On delivery at site:
		70 % 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 validation and Final Acceptance Certificate by Purchaser:
		Balance 10 % payment would be made

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against IQ, OQ documents approved by the purchaser along with 'Final Acceptance Certificate' 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. In the event of delayed Validation and FAT for the reasons attributable by the purchaser, the final 10% payment (subject to recoveries if any) shall be released within 6 months from the date of delivery of materials at site.

All milestones payments shall be made within 30 days from the date of submission of necessary documents.

B) Payment for Imported Goods:

100% of the Payment shall be made in the currency through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country as specified in the contract in the following manner:

a) Advance

10% of the net DAP price after submission of Bank guarantee equivalent to 110% of the advance amount in the same currency along with submission of Security Deposit / Performance security equal to 5% of the contract value in the form of a bank guarantee from or in the case of a foreign tenderer, the same shall be endorsed by a Nationalized Indian Bank. The advance bank guarantee shall be valid for a period upto 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 Receipt of Goods at site:

70% of the net DAP price (DAP price less Indian Agency commission) of the goods delivered shall be paid and upon submission of documents specified hereunder:

Four copies of supplier's invoice



- showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill, marked freight pre-paid and four copies of nonnegotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours:
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Manufacturer's own factory inspection report and
- (vii) Certificate of origin by the chamber of commerce of the concerned country;
- (viii) Goods receipt certificate by the ultimate consignee on receipt of goods at this site/warehouse as per section XVII of this tender document.

d) On validation and Final Acceptance Certificate by Purchaser:

Balance 10 % payment would be made against IQ, OQ documents approved by the purchaser along with 'Final Acceptance Certificate' 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. In the event of delayed Validation and FAT for the reasons attributable by the purchaser, the final 10% payment (subject to recoveries if any) shall be released within 6 months from the date of delivery of materials at site.

All milestones payments shall be made 30 days from the date of submission of necessary documents.



2	Section I & XXIII: Closing date & time for receipt of Tender: 02-02-2016, 10:30 Hrs	Closing date & time for receipt of Tender: 16-02-2016, 15:00 Hrs	
3	Section I & XXIII: Time and date of opening of Techno-Commerci Bids: 02-02-2016, 11:00 Hrs		
4.	Section XXIII: 3. Delivery: 10(Ten) months from the date of issure of Letter of Intent (LOI).	3. Delivery: 8(Eight) months from the date of issue of Purchase Order (PO).	
	8. Warranty Period: 12(Twelve) months from the date of Completion.	8. Warranty Period: 12(Twelve) months from the date of Completion of the project (IQ, OQ, FAT) or 18(Eighteen) months from the date of delivery of materials at site whichever is earlier.	
5.	Section IV Clause 8.6, Page 30/97 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.	The purchaser's/consignee's contractual right to inspect, test and, if found that the equipment differs from the original inspected and approved equipment, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.	
6.	Clause 11, Page 31/97 If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will be extended by the supplier at their own cost till the successful installation, testing, commissioning and handing over of the goods to the consignee.	If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will be extended by the supplier at their own cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to delay in handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.	
, #.		at actuals will be reimbursed for extended period. b) In case the production of the spare parts is discontinued: i. Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and ii. Immediately following such discontinuation, alternate	

	specifications of the spare parts, as and i requested by the Purchaser/Consignee.	f specification/make/model/preferred vendor, which is compatible to the supplied equipment must be provided.	
8.	13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services. i. Installation & commissioning, Supervision and Demonstration of the goods ii. Providing required jigs and tools for assembly, minor civil works required for the Completion of the installation.	13. Incidental services 13.1 Subject to the stipulation, if any, in the SC (Section – V), List of Requirements (Section – V and the Technical Specification (Section – VII), the supplier shall be required to perform the following services. i. Installation & commissioning, Supervision and Demonstration of the goods.	
9.	Page 4/97 Vendor requested clarification on PQ Quote for the unit against the URS, along with all options. The price to include all spare parts; documentation; packing; freight charges; start-up & commissioning; complete qualification package (FAT, SAT, DQ, IQ, OQ, PQ) and training and charges whatsoever required to complete the task in all respects to ensure the equipment operation is in accordance with the requirements of design documents.	Performance Qualification (PQ) support required for the purchaser to be provided by the Vendor.	
0	Page 4/97 Vendor requested clarification on Risk Analysis Involve with the purchaser and the consultants to establish documented evidence that the proposed design of the system is in compliance with the GMP requirements mentioned in the User Requirement Specification, Installation requirement specification and Risk Analysis.	Risk Analysis document shall be done by the purchaser/consultant along with the support of the vendor. This analysis will be done during the DQ / functional specification of the equipment.	
1	Page 14/97 Techno-Commercial Bid (Un priced Bid) Certificate of country of origin by the bidder from abroad. (Chamber of commerce)	'Country of Origin" declaration from the vendor in Letter head is sufficient.	



	Page 21/97	
12.	IRS and URS given in Annexure-I, II & III, not duly filled, signed and stamped.	IRS and URS given in Annexure-I, & II not duly filled, signed and stamped.
13.	ACCESS TO SITE All necessary access to working area will have to be made and maintained by the Supplier. Such temporary constructions shall have to be removed after completion of the work or if so advised by Purchaser at any point of time at no extra cost. LABOUR AT SITE Purchaser will not allow any temporary or permanent hutments or colonies at the Work Site. The Supplier will have to make his own arrangement for such labour camp(s) away from site at his own cost. WATER AND ELECTRICITY FOR CONSTRUCTIONS The electricity, if available at site will be provided to the Supplier at a single point on a chargeable basis. The Supplier shall pay the Purchaser at the prices stated. The quantities consumed shall be determined by the Purchaser, who shall include the amounts due as deductions in Interim and final payment certificates. The Supplier shall, at his risk and cost, provide any apparatus necessary for such determination and for his use of these services. The Supplier should make his own arrangements for providing back up power supply (like D.G sets of required capacity) during the work.	
14.	The Supplier shall be responsible, in all respects, for the co-ordination of all the services work including electrical, piping and modular works or works of other Purchaser appointed agencies. Supplier shall ensure proper co-ordination for the inter-dependent / related activities between himself, services sub-Suppliers and other nominated, Specialist Suppliers etc.	The Supplier shall be responsible, in all respects, for the co-ordination of all the services work including electrical, piping and modular works or works of other Purchaser appointed agencies. Supplier shall ensure proper co-ordination for the inter-dependent / related activities between himself, services sub-Suppliers and other nominated, Specialist Suppliers etc.(if required for the completion of this Project)

	The Supplier shall arrange the water, electricity and scaffoldings required on their own. Page 46/97	The Supplier shall arrange the water, electricity and scaffoldings required on their own (if required for the completion of the project).
	The Supplier shall be responsible to work out a co-ordinated work schedule with the HVAC, Civil, Electrical, Mechanical &Piping and other nominated Suppliers.	Deleted
15	Page 47/97 Point's related to civil works.	Deleted
	General Points :	
	i. Opening of LC.	 Letter of Credit shall be opened within 10 day from the date of receipt LC draft confirmation from Vendor.
16	ii. Request of Letter of Credit for Domestic Supplies	ii. No Letter of Credit for Domestic supplies.
	iii. Vendors requested foreign currency fluctuation clause for items to be imported from foreign country.	iii. HBL reply: Quote the INR & Foreign currency portion separately and arrive at the total INR contract value with the exchange rate prevailing at the time of Bid Submission. However, HBL shall pay the foreign currency portion to the vendor at the time of supply at the prevailing exchange rate.

S. No.	Clarifications on URSs / Data sheets					
В	DS: NPI-120310-E	DS: NPI-120310-EQP-URS-CCF 01 - Continuous Centrifuge				
	Specific revision in the URS					
	URS Point numbe specification *	r and excerpt* / description of the	Point modified as / Comment			
1.	Table no. 1 Point no. 2.0, 3		Table no. 1			
T.	Gapless discs	Gapless discs For high sanitary requirements		Point no. 2.0, 3 Gap free of spacers For high sanitary		
Table	e no. 2		weld on disks	requirements		
2.	Point no. 2.0, 1		Point no. 2.0, 1			
۷.	S Descriptio	Specification Remarks from vendor	S No. Descriptio Si	pecification Remark		



NV .						
1	Through put	50-500 LPH				For HepB, Cell washing- 300 to
2	PCV value of product at inlet	10% - 15%		1	Through	500 LPH Clarification - 50 to 150LPH
4	Disk Diameter	Vendor to specify				For Hib, Clarification - 100 to
5	No. of disks	01			PCV	150 LPH
6	Speed (rpm)	7000-12000 rpm		2	value of product at	15% to 25% for Hep B 1% to 2% for Hib
	Sludge	Sludge tank required for collection of pellet. Minimum capacity1.4L		4	inlet	deleted
7	Tank	Solid Discharge shall be collected in the sludge	\ -	5		deleted
	tank. Automatic SIP of the bowl / inlet and outlet lines / Solid Discharge i.e. the entire	Steam tempe ure ≥	ing rat	Speed (rpm)	7000-12000 RPM for Hep B 7000-12000 RPM for Hib	
SIP - steam in place	system shall be possible by injecting pure steam through upstream piping of	100°¢	7	Solid Holding space	Minimum 4L (Partial ejection shall be available)	
	the centrifuge lead through the filters and outlet from the downstream lines.				2:	Manual Steaming in place for all product contact lines along with filter lines. The
13	Gapless discs	The disk design as gapless welded space for highest sanitary requirements	Disk design gaples welded spacer for highes sanitar vibratio control	s 1 s t y	Manual Steaming in place [SIP}	temp.recording during the steaming process must be provided). PRV, Needle value, Steam trap, Recorder, Temperature sensor, e.t.c are required for sterilisation and it will be in the scope of the vendor
			should provide	be ed.3		Deleted
14	Vibration monitoring system	To monitor the vibration in the system during process and control should be provided.		14	Vibration monitoring system	To monitor the vibration in the system during process should be provided.

Point no. 2.1.3 Liquid Discharge area: feed once separated must be conveyed out of the Continuous Centrifuge, without any change of temperature in process and other required parameters.

Provision for two open outlets (TC ended) in T shape shall be considered

One outlet will be used for transferring liquid out of the Continuous Centrifuge tanks to the collection tank / process drain.

Point no. 2.1.3 Liquid Discharge area: feed once separated must be conveyed out of the Continuous Centrifuge, without any change of temperature in process and other required parameters.

Provision for two open outlets (TC ended) in T shape shall be considered

One outlet will be used for transferring liquid out of the Continuous Centrifuge tanks to the collection tank / process drain.



3.

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S. No.	Clarifications on URSs / Data sheets		
	Other will be used to recirculate the supernatant discharge back to the feed input vessel.	Other will be used to recirculate the supernatant discharge back to the feed line .	
	Both the outlets shall be provided with pneumatic valves which shall be controlled by the readings of the Turbidity sensor.	Both the outlets shall be provided with pneumatic valves which shall be controlled by the readings of the Turbidity sensor.	
	 If Turbidity Reading ≤ set point – Output of the tank will be routed to the collection tank / process drain. If Turbidity Reading > set point – Output of the tank will be recirculated back to the feed vessel. Turbidity sensor reading shall provide input to control the back pressure for product inlet and outlet. Note: It must also be possible to operate the valves manually based on visual observations in the view glass. 	tank will be routed to the collection tank / procedurain. If Turbidity Reading > set point – Output of the collection tank / proceduration.	
4.	Point no. 2.1.4 Solid Discharge area: After separation, the cell mass / solid gets collected in the sludge collection tank.	Point no. 2.1.4 Solid Discharge area: After separation, the cell mass / solid gets collected in the solid cyclone.	
5.	Point no. 2.1.12 The installed wheels on control module must be made of material that does not damage the clean room floors.	Point no. 2.1.12 Control module can be the part of the equipment skid	
6.	Point no. 2.1.14	Point no. 2.1.14 Point Deleted	
	Point no. 3.2.3	Point no. 3.2.3	
7.	Turbidity meter and view glass must be installed for monitoring and controlling the discharge. If the turbidity is above the set point the outlet shall be recirculated to the 1200 L feed vessel.	Turbidity meter and view glass must be installed for monitoring and controlling the discharge. If the turbidity is above the set point the outlet shall be recirculated to the feed line.	
	Point no. 3.5.2	Point no. 3.5.2	
8.	Turbidity meter and view glass must be installed for monitoring and controlling the discharge. If the turbidity is above the set point the outlet shall be recirculated to the 1200 L feed vessel.	Turbidity meter and view glass must be installed for monitoring and controlling the discharge. If the turbidity is above the set point the outlet shall be recirculated to the feed line.	
	Point no. 4.2.3	Point no. 4.2.3	
9.	Turbidity meter and view glass must be installed for monitoring and controlling the supernatant. If the turbidity is above the set point the outlet shall be recirculated to the 800 L feed vessel.	Turbidity meter and view glass must be installed for monitoring and controlling the supernatant. If the turbidity is above the set point the outlet shall be recirculated to the feed line.	
	Point no. 4.3.3	Point no. 4.3.3	
10.	The separated liquid will be recirculated to the feed vessel and collect in process vessel which shall be controlled through turbidity sensor.	The separated liquid will be recirculated to the feed line or collected in process vessel which shall be controlled through turbidity sensor	



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S. No.	Clarifications on URSs / Data sheets			
11.	Point no. 7.1.1 Temperature , pressure , flow rate and Turbidity control	Point no. 7.1.1 Temperature (only monitoring) , pressure , flow rate and Turbidity control		
12.	Point no. 7.1.2 It must be possible to manually change the CIP priority and CIP recipe.	Point no. 7.1.2 It must be possible to manually change the CIP priority and CIP time.		
13.	Point no. 7.2.2	Point no. 7.2.2 -Deleted		
14.	Point no. 7.2.3 Emergency air pressure	Point no. 7.2.2 Compressed air pressure		
15.	Point no. 7.2.6			
16.	Point no. 7.2.7 Temperature Alarm	Point no. 7.2.7 Temperature Alarm -Deleted		
17.	Point no. 7.2.8	Point no. 7.2.8 -Deleted		
18. Point no. 7.2.10 Point no. 7.2.10-Deleted		Point no. 7.2.10-Deleted		
19.	Point no. 7.2.11	Point no. 7.2.11 -Deleted		
20.	Point no. 7.3.1 The flow through the Continuous Centrifuge must be regulated to a set point 50 to 500 LPH	Point no. 7.3.1 The flow through the Continuous Centrifuge must be regulated as specified under section 2.0		
21.	Point no. 7.3.2 The back pressure for the Continuous Centrifuge at the supernatant outlet must be regulated to a set point range of 5-7 bar.	Point no. 7.3.2 The back pressure for the Continuous Centrifuge at the supernatant outlet must be regulated to a set point range of 0-6 bar.		
22.	Point no. 7.3.4 The speed of rotation for the ball in the Continuous Centrifuge must be controlled to 7000 to 12000 rpm. Point no. 7.3.4 The speed of rotation for the bowl in the Continuous Centrifuge must be controlled in the specified range.			
23.	Point no. 7.3.6 Sanitization of Continuous Centrifuge, and connecting pipes must ensure a temperature of 100 °C for ≥30 min.	Point no. 7.3.6 Sterilisation of Continuous Centrifuge, and all process pipings must ensure a temperature of >121 °C		
24.	Point no. 7.3.7 After CIP of Continuous Centrifuge, the inside surface (plates inside the Continuous Centrifuge) must be visually clean.	Point no. 7.3.7 After CIP of Continuous Centrifuge, the inside		





S. No.	Clarificat	ions on URSs / Data sheets					
	Point no.	7.4		Point no.	7.4		
25.	Level	in solid tank to monitor the amount of solids generated	Load cell / Vender to spec	Level	in solid tank to monitor the amount of solids generated	Level switch	
	Point no.	7.4		Point no. 7.4			
26.	Flow	At upstream and downstream of centrifuge to monitor the flow of centrifuged bulk	Flow transmitt / indicator / controller.	Flow rate	At downstream of centrifuge to monitor the flow of centrifuged bulk	Flow transmitters / indicator / controller.	
	Point no.	7.4		Point no.	7.4		
27.	Flow	To monitor flow rate of Seal cooling liquid / Operating liquid for bowl lifting	Flow transmitters indicator / controller.	Pressure	To monitor pressure of S cooling liquid / Operating liquid for bowl lifting		
28.	 Displa Displa Provis	ontrol panel (IPC) with 21 CFR the dito these) by of time, temperature, pressete and RPM sion for manual operation, on, Emergency stop Button	ure, Turbidity,	 Point no. 7.5.2 HMI shall include of the following (not limited to these) Display of time, temperature, pressure, Turbidity, flow rate and RPM Provision for manual operation, CIP/SIP time duration, Emergency stop Button Batch data to be stored in SD card/USB and also stripchat recorder, real time printer to be provided 			
29.	ASME se procecess approach electronic for valida	s Centrifuge should meet ASM	E 2012,bio- risk based R part 11 for ures, GAMP IEC 60529	Point no.			
30.	Emergency air connection to provide back up for the Comp				Point no. 7.7.5 Compressed air connection to provide back up for the lubrication air system		
31.	Point no. 7.7.6 Peristaltic pump is required for infeed of intermediate solution and for the outfeed of the fractions			Point no. 7.7.6 Peristaltic pump is required to feed the centrifuge (vendor scope)			
32.	Point no. 7.7.10 User will provide the cleaning agents and supplier shall give the compliance report of the cleaning agents coming in product contact surfaces			Point no. 7.7.10 Equipment supplier to provide the MOC of each component and user to check the compatible cleaning solutions			
33.I	Point no.		<u></u>				





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34.		no. 7.7.1 included: Double me area	chanical seal in the neck be	aring	is must to separate	the sterile area from non	
				URS Annexure 2: List of preferred make of components			
	4	Temperature sensor	Negele/ Radix/E&H/Yocogawa	4	Temperature sensor	Negele/ Radix/E&H/Yokogawa/ Labom	
35.	5	Turbidity sensor	Mettler Toledo/Hamilton/E&H	5	Turbidity sensor	Mettler Toledo/Hamilton/E&H/O tek	
	8	Flow sensor	E&H/ Burkert	8	Flow sensor	E&H/ Burkert / ABB	
	17	Sanitary PRV	Jordan / Forbes Marshall	17	Sanitary PRV	Jordan / Forbes Marsha / Leser	
	20	Bowl	Zook/Elfab/ Fike	20	Deleted	, 2000.	
			IRS except below mentions odified as" will be applicab		= =	able for this equipment	
37.		no. 5.1, 3 Guidance for Industry:	For equipment used in steriliz	zation	such as autoclave / [OHS etc	
JO.	Point	no. 5.1, 6				5110 010	
	ASIVIE	: For all pressure ves	sels / reactors / fermenters / a	utocia	ive / sterilizers etc		
39.1		no. 5.1, 7 NSF 49-2008					
40.1	Point ISO 14	no. 5.1, 8 1664	2				
41.1	Point ISO 83	no. 5.1, 9 362					
42.	Point no. 5.4.1 "filling line and < 0.8μ Ra for Lyophiliser" is removed						
43.		no. 5.6 R Part11					
44.		no. 5.9.6.42 ed as : Only the seque	ence of operations to be provi	ded			
40.1	Modified as: Only the sequence of operations to be provided Point no. 5.9.6.46 Modified as: Delivered software must be forwarded on suitable Storage medium in a format suitable for						





S. No.	Clarifications on URSs / Data sheets
	installation. customization and minor modification to create new recipe shall be possible.
46.	Point no. 5.9.6.51 Supplementing the P&I diagram: A valve position matrix must be developed for complex processes. The conditions of valves and engines must be described in the various process steps.
47.	Point no. 5.10.1 Modified as: A special training for operators, supervisor, and maintenance, electrician staff has to be included in the offer.
48.	Point no. 5.10.2 Modified as: Training must be carried out by qualified personnel. Training documents must be handed over to each participant (by the customer) at the beginning of the training. A training certificate describing the training subjects must be worked out.
49.	Point no. 5.11.9 Air break for drain is not required (applicable for other pages of the document also)

For HLL Biotech Limited

Chief Executive Officer

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NNE Pharmaplan India Limited, #.9, BEL Air Drive, 4th Floor, Bellary Road, Ganganagar, Bangalore - 560032, India

List of Attendees

Date:

19-01-2016

Client:

M/s HLL Biotech Limited

Venue:

M/s HLL Biotech Limited, Chennai

Project:

Integrated Vaccine Complex, at Chengalpattu

Subject:

Pre-bid Meeting for Continuous Centrifuge

SL NO.	NAME	COMPANY	CONTACT NO:	EMAIL ADDRESS	SIGNATURE
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3 -	S.T. Phameker	ALFA LAVAL	9822081032	Sameep. phansekar@ alfalaval.com	&
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