


HLL BIOTECH LIMITED, CHENNAI

INTEGRATED VACCINES COMPLEX, CHENGALPATTU

nne pharmaplan	User Requirement Specifications				 HBL BIOTECH LIMITED Sector 14, Gurgaon Gurgaon, Haryana
	Equipment/System	Ultracentrifuge			
	Identification #	B1-UCF 01-04	Document No.	URS/UCF 01	
	Effective Date	18-04-2016	Revision#	01	

User Requirement Specifications Ultracentrifuge

Block Code	Area	Identification #	Quantity(Nos.)	Capacity
B1	Multiple Bacterial Bulk block – Hep B	B1-UCF 01-04	4	8 x [40+/-1] mL

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URS Annexure List

URS Annex No.	Detail
1	Layout showing location of the Ultracentrifuge in the Multiple Bacterial Bulk Block

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HLL BIOTECH LIMITED Chengalpet, Chennai Tamil Nadu - 600 045	User Requirement Specifications			
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Note:

1.	This Technical Specification is the basis for an inquiry to a vendor and therefore the basis for the vendor's proposal.
2.	The vendor is asked to state in "REMARKS" column with "yes" if the described requirement will be completely fulfilled and with "no" in case the requirement will not or cannot be fulfilled with the proposed equipment. In case of any deviation a comment must be inserted or enclosed as a separate annexure by referring to the respective URS specification number.
3.	The vendor must clearly comment each item of the Technical Specification. The comments must be in English language. If extra cost for necessary options becomes necessary the item must be clearly stated.
4.	In case that the requirement includes a question or request or information from the vendor, the answer / information should be stated in the "REMARKS" column.
5.	The final version of this document including the vendor's comments will become basis of a potential purchase order or contract.
6.	The Technical Specification serves to define a summary of all vendor's requirements concerning scope of delivery and services.
7.	The vendor is responsible for technically unobjectionable function of the equipment. This TS is not intended to dictate a technical design to the vendor. If agreed upon with the vendor, the vendor can apply his practically proven design.
8.	Special Instruction a. If no comments against any specification shall be considered as "NO" and b. If there is no reply / comments against the complete URS by the vendor then it shall be treated as unresponsive / technically non-compliant and rejected.
9.	All the instruments and controls mentioned in the URS(s) are expected to be standard supply and part of your standard equipment model. In case of any deviation or redundancy or additional scope of supply is noticed, vendor is required to obtain clarification from HBL before submitting the quotes.
10.	The makes requested are standard international makes. In case of any deviation, vendor to seek clarification from HBL before submitting the offers.
11.	Refer document "Installation Requirement Specifications and Specific Instructions" with URS NPI_120310_EQP_IRS_S1_01
12.	Refer tender document NPI_120310_EQP_S1_TD_17


All the points of the IRS except below mentioned points will be applicable for this URS

- 4.1.11, 4.1.13,
- ASME, ANSI / NSF 49-2008
- ISO 14644, ISO 8362
- 5.2.7, 5.2.8
- Heat exchanger, Insulation & cladding, Air break, CIP/SIP, Drain ability related points

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Salem, India - 626 002
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Specifications	Remarks
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6.4 Level of instrumentation

Not applicable

6.5 Batch data display and record printing

6.5.1	Batch data display should include these parameters i.e., set value and actual process value but not limited to these, • Time, Temperature, RPM, Operator Name	
6.5.2	Common software shall be provided to monitor all the equipment and it should be 21 CFR Part 11 Compliant	
6.5.3	Equipment should have provision to connect to the external printer with suitable interface for printing the batch data	

6.6 GMP requirements (Others)

6.6.1	All product contact parts shall be cGMP compliant	
6.6.2	The system must be designed to fail in safe mode and to recover from safe mode without risk of contamination or product loss.	

6.7 Specific requirements

In general the equipment has to be designed in a way to get easy and quick access to all necessary maintenance points.		
6.7.1	Vendor to provide the range of rotational speed of the Rotor in the Ultracentrifuge and shall be settable	
6.7.2	Audible and optical alarms to indicate the end of operation and to indicate other abnormality conditions	
6.7.3	Equipment shall be CE certified	
6.7.4	Cleaning shall be done manually. Vendor to provide the details about cleaning procedures and probable cleaning agents can be used	
6.7.5	Cooling mechanism should be provided to maintain the uniform temperature throughout the operation.	
6.7.6	Equipment shall be provided with over speed protection device.	
6.7.7	The rotor should be easily removable using minimum tools.	
6.7.8	Equipment shall be provided with automatic lid lock system	
6.7.9	Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their calibration procedure	
6.7.10	The system must be designed in such a way that, It should not start when lid is open	

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URS Annexure 1: LAYOUT OF MULTIPLE BACTERIAL BULK BLOCK

B1-UCF 01-04: Purification and Chromatography (B1G043), Hepatitis - B

