

DATA SHEET		
HLL BIOTECH LIMITED, CHENNAI		
nne pharmaplan®	REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR	
	Table top cooling centrifuge	
	Project No :	110831
	Equipment ID :	Annexure 1
	Document No :	DS-TCC-01
		
<b>1</b>	<b>Process requirements</b>	
1.1	The Table top refrigerated centrifuge shall be used for the separation process of cellular components blood samples, tissue cultures.	
<b>2</b>	<b>Technical Specifications</b>	
2.1	Model	cGMP model
2.2	Type	Benchtop cooling centrifuge
2.3	Temperature range	2 °C to 8 °C
2.4	Temperature control	± 2 °C
2.5	Electricity consumption	Vendor to specify
2.6	Rotor	Swing Type
2.7	Capacity	To hold 50 mL tubes x 16 no's
2.8	Quantity	1 No.
2.9	Power consumption	vendor to specify
2.10	Accuracy	maximum ± 10 rpm
2.11	Control system	Microprocessor based
2.12	Dimension	(W x H x D) vendor to specify
2.13	Max.Force[xG]	20913
<b>3</b>	<b>Material of Construction</b>	
3.1	The MOC of the outer body should be corrosion resistant, made up of cast metal ergonomic body with stain resistant enamel finish.	
3.2	Rotor MOC: Fiberlite carbon.	
<b>4</b>	<b>Specific requirements</b>	
4.1	Should be GLP Compliant.	
4.2	Seamless, splash proof key pad with characteristic symbols should be provided for easy operation.	
4.3	Audible and optical alarms to indicate the end of operation and to indicate other abnormality conditions	
4.4	Rotor imbalance alarm should be given.	
4.5	Warning measures for high and low temperature control.	
4.6	Hinged type top cover should be provided.	
4.7	Cooling mechanism should be provided to maintain the uniform temperature through out the operation.	
4.8	The instrument should be designed for explosion-proof.	
4.9	The cleaning shall be able to be done manually	
4.10	On power failure the instrument should run under alternate power supply without interruption of the operation.	
<b>5</b>	<b>Other requirements</b>	
5.1	LCD shall display the actual parameters: speed, time, relative centrifugal force.	
5.2	Brushless motor-maintainence free	
5.3	Rubber suction feet for stability	
5.4	Breaking system to be provided for reducing the speed	
<b>6</b>	<b>Regulatory aspects</b>	
6.1	NA	
<b>7</b>	<b>Safety requirements</b>	
	Following facilities must be provided to protect personnel and equipment:	

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7.1	Appropriate closure of all parts of an instrument is essential					
7.2	Proper earthing is necessary for the instrument					
7.3	On power failure equipment should come in fail safe condition					
7.4	It should not start when lid is open					
7.5	Lid should not be possible to open while spinning					
<b>8</b>	<b>Documents</b>					
	<b>Following documents, but not limited to these, are expected from the vendor as part of the supply package in hard copy as well as editable electronic file</b>					
8.1	IOQ Protocol.					
8.2	Operation and maintenance manuals shall be provided along with IQ and OQ documents during installation at site					
8.3	Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their calibration procedure.					
8.4	All equipment warranty should be valid for one year from the date of completion.					
8.5	Vendor should provide list of standard spare parts with ordering information.					
8.6	Vendor should provide list of change parts (if applicable) with ordering information					
<b>9</b>	<b>Timelines</b>					
	Not Applicable					
	AFI Approved for Enquiry			AFO Approved for Ordering		
01	2015-10-01	MNS	PULM	<input type="checkbox"/>	<input type="checkbox"/>	
Rev	Date	Completed By	Checked By	AFI	AFO	Sheet 1/2

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	REVIVAL OF DPT VACCINE MANUFACTURING FACILITY, PII, COONOOR		 <b>HLL BIOTECH LIMITED</b> <small>(Subsidiary of HLL Lifecare Limited)                  (A Government of India Enterprise)</small>
	Table top cooling centrifuge		
	PROJECT NO :	110831	
	EQUIPMENT ID :		
DOCUMENT NO :		DS-TCC-01	

**TABLE NO: 1**

Equipment ID	Block Name	Quantity	Capacity	Speed Range (RPM)	Room Name	Room No	Room Dimension in mm	Room height in mm
B2-TCC 01	Tetanus	1	50 mL tubes x 16 no's	5000	Seed Preparation	B2G028	4600 x 5280	3000



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