

**DATA SHEET**

**HLL LIFECARE LIMITED, CHENNAI**

	<b>REVIVAL OF BCG VACCINE LABORATORY, GUINDY, CHENNAI</b>		
	<b>Peristaltic Pump</b>		
	PROJECT #:	110729	
	EQ. ID #:	BF-PSP 01	
	DOCUMENT # :	DS/BF-PSP 01	

**1 Process requirements**

1.1 It is used to transfer the samples from one bottle to other.  
Room details: **BSL-2 Harvest + Purification, Room no. BF037**

**2 Technical Specification**

2.1	Model	cGMP model	
2.2	Type	Portable Type and clean room suitability	
2.3	Min. flow rate	0.001 LPM	
2.4	Requirement	0.5L in 10-15min [settable]	
2.6	Tube sizes (Internal/External)	3/7 mm or 10/12 mm	
2.90	Operating temperature	Vendor to specify	
2.10	Relative humidity	Vendor to specify	
2.11	Displacement	Positive	
2.12	Rotor Speed	Vendor to specify	
2.13	Pump head	Single	
2.14	Operation	Continuous	
2.15	Design Temp	Vendor to specify	
2.17	Pressure Range	Vendor to specify	
2.18	IP rating	Vendor to specify	
2.19	Motor	Brushless with Digital variable speed control, Brushless, maintenance-free motor	
2.2	Motor direction	Clockwise and counter clock wise; both	
2.21	Shipping Weight	Vendor to specify	
2.22	Electricity Consumption	Power (KW): <b>Vendor to specify</b>	
2.23	Dimension (L x W x H) in mm	Vendor to specify	

**3 Material Of Construction**

3.1	Main body	Stainless steel/Power Coated
3.2	Rollers, Pump case, Shaft, Bracket	Vendor to specify
3.3	Tube	Platinum cured silicon tube
3.4	Support base	Vendor to specify

**4 Specific Requirements**

4.1 Peristaltic pump for continuous operation and pumping of process fluid along with metering the volume of fluid

4.2 Microprocessor controlled with soft-touch keypad and with easy-to-read LCD Screen along with LED light display to show the mode of the pump.

4.3 Digital variable speed based pump drives; Stepper motor drive for uniform rpm Digital Variable Speed

4.4 Digital speed setting, reversible flow, programmable pump

4.5 Pump speed should not vary with power fluctuations (Near pulseless flow)

**5 Other Requirements**

5.1 The equipment must be easy to clean

5.2	All bolts, nuts on the exterior part of equipment should be with cap head or cap nut.					
5.3	There should be no crevices, so as to avoid dust accumulation					
<b>6</b>	<b>Regulatory guidelines / standrds</b>					
6.1	<b>21 CFR part 11:</b>					
6.1.1	NA					
6.2	CE certification					
<b>7</b>	<b>Safety</b>					
7.1	In the event of equipment malfunction or loss of utilities, the unit must contain all necessary protection devices to ensure that the equipment and the product remain in a safe condition.					
7.2	Noise level below 75 decible.					
<b>8</b>	<b>Documents</b>					
8.1	Operation and maintenance manual should be provided.					
8.2	Vendor should be provided warranty certificate for 1 years after completion.					
8.3	Calibration certificate should be provided.					
8.4	List of make with certifacate should be provided.					
	<b>NOTE:</b> Accurate size and technical specification need to be mentioned by the vendor.					
	AFI Approved for Enquiry					
	AFO Approved for ordering					
1	2015-04-07	MNS	SDBB	<input type="checkbox"/>	<input type="checkbox"/>	
Rev	Date	Completed By	Checked By	AFI	AFO	Sheet 1/1