

Equipment Specification Data Sheet

Equipment Name: High Precision Syringe
Dispenser

Document No.: DS-HPD 01

Revision: 04

Project No.: 120310

Project Name: Integrated Vaccines
Complex, Chengalpattu

Block Code	Block Name	Identification No.	Capacity	Quantity
G1	Animal House	G1-HPD-01	100 µl to 1 ml	1
G1	Animal House	G1-HPD-02	500 µl to 5 ml	1
G1	Animal House	G1-HPD-03	5 µl to 50 µl	1

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
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Prepared by

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HLL Biotech Limited

Name	Designation	Signature	Date
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Equipment Specification Data Sheet				
HLL Biotech Limited, Chennai				
nne pharmaplan®		INTEGRATED VACCINES COMPLEX, CHENGALPATTU		 HLL BIOTECH LIMITED (Subsidiary of HLL Lifescare Limited) (Government of India Enterprise)
		Equipment Name	High Precision Syringe Dispenser	
		Document No.	DS-HPD 01	
		Revision No.	04	
1	Process requirements			
1.1	It will be applied for the purpose of dispensing precise quantities of solution in accurate proportions. In Animal House, this automated syringe will be used for inoculation of varied dosage forms depending on the product and required quality evaluation. This syringe dispenser with advanced controller consists of Syringe pump, bubble free prime syringe, Universal valves and controller.			
2	Equipment ID	Suitable for syringe size	Optimal range	Process Requirement
2.1	G1-HPD-01	1 ml	100 µl to 1 ml	For precise dispensing and inoculation
2.2	G1-HPD-02	5 ml	500 µl to 5 ml	
2.3	G1-HPD-03	50 µl	5 µl to 50 µl	
3	Technical Specification			
3.1	Model	cGLP model		
4	Syringe Pump Specification			
4.1	Accuracy	± 1%		
4.2	Precision	± 0.2%		
4.3	Flow rate	Depending on the syringe selected		
4.4	Compatible syringe	1 ml and 5 ml (for G1-HPD-01 & G1-HPD-02) 50 µl (for G1-HPD-03)		
4.5	Fluid Path	Boro silicate PTFE, CTFE		
4.6	Communication Path	Ethernet, 10/100 Base-T		
4.7	Pump Memory	One method stored in non-volatile memory		
4.8	Dimensions	Vendor to specify		
4.9	Weight	Vendor to specify		
5	Controller Specifications			
5.1	Screen	Touch Sreen,Screen tilts for Viewing comfort, Advance SD card, Ethernet		
5.2	Screen Size	Vendor to specify		
5.3	Screen Resolution	Vendor to specify		
5.4	Tilts Positions	5 Positions from 90° to flat		
5.5	Mounting Options	On top of the syringe pump, Bench Top or Wall Mount		
5.6	Program Memory	2GB,(With Advanced Upgrade)		
5.7	Communication Type	Ethernet, 10/100 Base-T		
5.8	Power rating	2.25 x 6.5 x 7inch (57.2 x 165.1 x 177.8 mm) in down position		

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5.9	Weight	Vendor to specify
5.10	Bubble Free Prime Syringe	Vendor to specify
5.11	Universal Valves	The Universal valves shall be High precision, Robust and Flexible. Flexible to interchange the valve plugs and tubing to achieve the required configurations.
6	Accessories	
6.1	Luer Lock conversion Kit	For Hand probe - Vendor to specify
6.2	Needle Requirements	Removable - SS 316 autoclavable
		Needle requirements shall be in line with syringe specification and shall be provided by vendor
7	Utility	
7.1	Power requirement	To be compatible with standard Indian power supply socket.
7.2	Material of Construction	Vendor to specify
8	Other requirements	
8.1	Equipment shall be compatible for cleaning with all standard disinfectant.	
8.2	The equipment must be portable.	
8.3	Training/Demo for users on operation and cleaning to be provided	
9	Regulatory Requirements	
9.1	NA	
10	Safety requirements	
	Following facilities must be provided to protect personnel and equipment:	
10.1	Appropriate closure of all parts.	
10.2	Proper earthing is necessary	
11	Documents	
	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:	
11.1	IOQ documents.	
11.2	Operation and maintenance manuals shall be provided along with IOQ documents during installation at site.	
11.3	Warranty for 1 year from the date of supply.	
11.4	List of standard spare parts with ordering information.	
11.5	Calibration certificate of critical instruments with respect to the traceable national reference standard instrument and their procedure.	

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12	Timelines		
12.1	Not Applicable		
13	Preferred list of Makes		
13.1	Nordson India Private Ltd, Hamilton		
	NOTE: Accurate size and technical specification need to be mentioned by the vendor		

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Table-1: Equipment location					
EQUIPMENT ID	Block Name	Room Name	Room No	Room dimension in mm	Room height in mm
G1-HPD-01,02	Animal House	Testing area (Inoculation room)	G1G057	4800 X 5100	2700
G1-HPD-03	Animal House	Challenge area (Inoculation room)	G1G080	2900 X 8200	2700
Table-2: Change Log					
Date	Name	Revision	Section	Change/Comment	
11-07-2014	Manohar	00	-	New document	
04-08-2014	Manohar	01	All	Updated as per comments received from HBL dated 04-08-2014	
27-10-2014	Manohar	02	All	Updated as per comments received from HBL dated 15-10-2014	
06-01-2015	Yogesha M J	03	All	Updated as per comments given by HBL team during meeting dated 06-01-2015 at HBL office	
29-04-2015	Manohar M S	04	All	Updated as per comments given by HBL team dated on 27-02-2015.	
Table-3: Annexure					
Not applicable					