

Equipment Specification Data Sheet

Equipment Name: Fogger

Document No.: DS/DFG 01

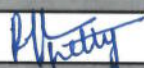

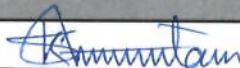
Revision: 00

Project No.: 120310


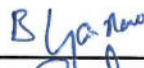


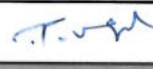
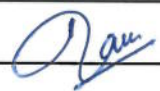
Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Identification No.	Capacity	Quantity
Q1	Admin, QA & QC	Q1-DFG 01-02	-	2
B1	MBB-HiB	B1-DFG 01-02		2
F2	BVF	F2-DFG 01-02		2
B4	Rabies Bulk	B4-DFG 01-02		2

NNE Pharmaplan India Limited

Name	Designation	Signature	Date
Prepared by			
Ms. Rashmi Shetty	Engineer - Process		2016-10-26
Checked by			
Mr. Karthik S	Senior Engineer - C&Q		2016-10-26
Approved by			
Mr. Krishna Amrutam	Manager - Formulation		2016-10-26

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department: (Quality control) S. Srinivasan R. R	MANAGER		28-10-2016
User department: (MBB-HiB) S. Srinivasan R. A. O	Deputy Manager		28-10-2016
User department: (BVF) S. Srinivasan R. E. R	Deputy Manager		28-10-2016
User department: (Rabies bulk) P. Navin Kumar	Dy. MANAGER		28-10-2016
Project / Engineering department K. Vinod Kumar	DM- Prod		28-10-2016
Approved by			
Head of the department (Quality control) V. Sivaganesan	Manager		28-10-2016

Equipment Specification Data Sheet

Equipment Name: Fogger


Document No.: DS/DFG 01


Revision: 00

Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

User department: (MBS-HIB) V. Subrahmanyam	Head-BV	M.V. Subrahmanyam	31.10.2016
Head of the department (SVF) NARASIMAA REDDY	Sr. Manager	S. Narasimha Reddy	31.10.2016
Head of the department (Rabies bulk) P. Subashan	Head (Rabies & Co)	P. Subashan	03/11/2016
Head of the department (QA) Suresh Babu	QA	S. Suresh Babu	03-11-2016
Authorized by			
Project Authority RAMAN - K.R	CEO	K. Raman	04/11/16.

Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	Fogger
	Project #	120310
	Document #	DS/DFG 01
		
1	Process Requirements	
1.1	Aerial sterilisation	
2	Equipment ID	
2.1	Q1-DFG 01-02	
2.2	B1-DFG 01-02	
2.3	F2-DFG 01-02	
2.4	B4-DFG 01-02	
3	Technical Specification	
3.1	Aerosol size	1 micron sized droplet
3.2	Space treatment	14000cuft
3.3	Reach/coverage	Upto 50-60ft distance; Up to 22ft
3.4	Solution required per 1000 cu ft space	400-500ml/1000 cu.ft
3.5	Continuous operation	Up to 1 hour
3.6	Metering valve for medium to heavy fog generation	vendor to provide
3.7	Timer	To provide for auto shutdown, with time delay option
3.8	Vendor to demonstrate the particulate size of the aerosol and provide necessary documentation	vendor to provide
3.9	Validation of Flow rate, compatibility with standard disinfectants	vendor to provide
3.10	Electronic requirements	vendor to specify
3.11	Motor design	UL/CE Approved
3.12	Output rate	Vendor to specify
3.13	Capacity	Minimum of 5L
3.14	Machine weight	upto 8kg
3.15	Accessories	Turn table/oscillator
3.16	Intake air filter: two layer filter for dust and fog separation	vendor to provide
3.17	Quantity	8 Nos
4	Material of Construction	
4.1	Tank	SS 316, autoclavable
4.2	Machine handle	SS/Preferably 316
4.3	Turn table/Oscillator	SS/Preferably 316
4.4	Nozzle assembly	SS 316
4.5	Gasket	Silicon gasket. Medical grade.
4.6	Mounting ring	SS 316
4.7	Strainer	SS 316
4.8	Liquid line connector	SS 316
4.9	Mirror polished inner surface and outer surface	
4.10	All welds shall be ground finish	
5	Specific Equipment requirement	
5.1	The design of the equipment shall facilitate efficiency and easy cleaning with standard disinfectants.	
5.2	The equipment shall provide leak proof tank design	
5.3	The equipment shall provide shock proof motor housing	
5.4	Noise level Should not be more than <88 db @ 1 Meter.	
5.5	Compatible with all leading disinfectant/fumigant for fogging	
6	Other requirement	
6.1	Training / demonstration to be provided to users on operation and cleaning to be provided.	
7	Regulatory guidelines / standards	

Equipment Specification Data Sheet						
HLL Biotech Limited, Chennai						
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU					
	Equipment Name		Fogger			
	Project #		120310			
	Document #		DS/DFG 01			
7.1	CE certification					
8	Safety requirements					
	Following facilities must be provided to protect personnel and equipment:					
8.1	Noise level Should not be more than 88 decibels.					
8.2	Proper earthing should be provided.					
8.3	No sharp edges/Corners, crevices, in the equipment.					
8.4	Appropriate closure of all parts					
9	Documents					
	Following documents, but not limited to these, are expected from the vendor as part of supply package in hard copy as well as editable electronic file.					
9.1	IOQ documents.					
9.2	Operation and maintenance manuals shall be provided along with IOQ documents during installation at site.					
9.3	Warranty letter for 1 year from the date of supply.					
9.4	Calibration certificate of critical instrument with respect to the traceable national reference standard instrument and their calibration procedure.					
9.5	List of standard spare parts with ordering information.					
10	Timelines					
10.1	Not Applicable					
11	List of Preferred make					
11.1	Radiant Enterprises, Idealin Foggers, Gouri Foggers,					
	NOTE: Accurate size and technical specification need to be mentioned by the vendor					
Table-1: Equipment location						
Equipment ID		Block Name	Room Name	Room No	Room dimension in mm	Room height in mm
Q1-DFG 01-02		Admin, QA & QC	Microbiology	Q1S045	3700X4600	2400
B1-DFG 01-02		HiB	IPQC Room	BIG135	3000X3000	2700
F2-DFG 01-02		BVF	IPQC Room	BIG008	3000X3000	2700
B4-DFG 01-02		Rabies Bulk	Media preparation	B4G027	6800X4150	2700
Table-2: Change Log						
Date	Name / Initial	Revision	Section	Change/Comment		
16.10.2016	RHSE	00	-	New Document		