

Equipment Specification Data Sheet

Equipment Name: Guinea Pig Cages
& Cage Racks

Document No.: DS-CSG 01


Revision: 01


Project No.: 120310

Project Name: Integrated Vaccines Complex,
Chengalpattu

Block Code	Block Name	Identification No.	Capacity	Quantity
G1	Animal House	Not Applicable	Refer Annexure	Refer Annexure

NNE Pharmaplan India Limited			
Name	Designation	Signature	Date
Prepared by			
Ms. Niharika	Engineer - Process	<i>[Signature]</i>	2016-03-18
Checked by			
Mr. Yogesha M J	Engineer - Process	<i>[Signature]</i>	2016-03-18
Approved by			
Mr. Krishna Amrutham	Lead Engineer - Fill & Finish	<i>[Signature]</i>	2016-03-18
HLL Biotech Limited			
Name	Designation	Signature	Date
Reviewed by			
User department: (Animal House)	Deputy Manager	<i>[Signature]</i>	21-03-2016
Project / Engineering department	Manager	<i>[Signature]</i>	21-03-2016
Approved by			
Head of the department (Animal House)	MANAGER	<i>[Signature]</i>	21.03.2016
Head of the department (QA)	DM	<i>[Signature]</i>	21.03.2016
Authorized by			
Project Authority	CEO	<i>[Signature]</i>	22/3/16

Equipment Specification Data Sheet		
HLL Biotech Limited, Chennai		
nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU	
	Equipment Name	Caging system for Guinea Pigs
	Project #	120310
	Document #	DS- CSG 01
		
1	Process requirements	
1.1	This caging system shall be used for housing laboratory Guinea Pigs considering the space requirement per animal as specified by CPCSEA	
2	Equipment ID	
2.1	NA	
3	Technical Specification- SS Pans, Feed hopper, Water Bottle and Water bottle holder	
3.1	Cage body construction	SS Guinea pig pans
3.2	Sterilization Temperature	Autoclavable at 121 °C temperature
3.3	MOC of the cage	The entire SS pan shall be made of AISI non magnetic, alkaline and chemical resistant stainless steel sheet SS 304 quality and shall be rust proof.
	Cage Body Construction	The floor dimension of the Guinea pig pan shall be 800 mm X 800 mm X 250 mm (LXWXH). The upper edges (perimeter) shall be wider than the lower edges (perimeter) meaning there shall be a slight inclination of the side walls of the cage expanding on the outside essentially to facilitate stacking and access to the cage.
		18 mm holes shall be provided on all the four sides of the pan for proper ventilation
		8mm rod shall be provided to the upper 4 edges for strengthening the pan
		Card holder shall be provided with SS 304 quality sheet at front side of the pan
		3 handles shall be provided with 8mm SS Rod 1 at front and 2 at the sides of pan
		Should have provided the feed hopper holders inside the cage and it should facilitate Feed hopper 1 inch above the floor level of the pan
		Front side of the pan 2 Water bottle holders should be provided
		There should be no sharp edges and protrusions in the pan
		All the corners as well as welding areas should be rounded off nicely
		Sample shall be provided for approval
3.4	Feed Hopper	2 hanging feed hoppers shall be provided with rounded edges made of SS 304 18G
		Size of the feed hopper shall be 200 mm X 100 mm X 30 mm (L X W X D) and shall have 2 strip hooks / feed hopper to fit the feed hopper to the cage on either sides of the cage.
3.5	Water Bottle	500 to 750 ml bottle
3.6	MOC of water bottle	Polycarbonate construction with gasket
3.7	Bottle Cap	Bottle cap should be made of SS 304 with Nipple - SS nozzle / SS ball Bent nozzle made of SS
3.8	No of SS Pans	846 nos
	No. of feed hoppers	1692
3.9	No of Water Bottles	1692

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4	Technical Specification- Rack for keeping Guineapig SS Pans			
4.1	Capacity	Each Cage rack should hold 4 Guinea pig pans (SS) pans of above said Guinea pig pan dimensions		
4.2	Dimensions	Vendor to specify. Sufficient spacing to be considered for placement of Guineapig pans		
4.3	Back side support for cage	Stoppers shall be provided in the back side of the cage rack to prevent sliding of the cage from the cage rack from behind		
4.4	MOC	Superior finish SS 304 30mm X 30mm pipes should be used for fabrication of rack. The SS rack shall be made of AISI non magnetic, alkaline and chemical resistant stainless steel sheet SS 304 quality and shall be rust proof		
4.5	Wheels	4 nos for each rack with superior quality polyurethane wheels. 2 wheels shall be provided with brakes.		
4.6	Pattern and spacing	1 guinea pig pan per row. 4 rows shall be provided. After accomodating the pans, the space between the pans shall be minimum of 15 cms between each row to facilitate proper ventilation and daily maintenance activities.		
4.7	Shelve Support to hold Pans Weight	Each shelve of the rack should have the support with SS 304 16G rods for holding the weight of the pans and accessories along with animals weight to be considered		
4.8	Cage rack pattern	Sliding type rack for poistioning of the Guineapig pans		
4.9	No of guinea pig racks	150 nos		
5	Specific Requirments- Cages			
5.1	The guinea pig pans shall have guaranteed uniform quality with minimal dirt traps and excellent stackability for ease of handling and storage			
5.2	Pans shall have a very fine finish with perfect welds between the grills and no sharp edges or projections			
5.3	The cage shall be sturdy enough to with stand frequent autoclave cycles.			
6	Specific Requirments- Water bottle			
6.1	The Poly carbonate water bottles shall be sturdy enough to with stand frequent autoclave cycles at 121 °C			
6.2	It shall be autoclaveable at 121 °C			
6.3	The bottle shall be graduated upto 750 ml. The graduations shall be embosed and moulded graduations			
6.4	The bottles shall be made of rigid walls, cannot be squeezed when handling.			
6.5	The bottles shall have wide mouth to aid filling and emptying, whilst also ensuring effective washing.			
6.6	The caps shall be corrosion resistant, chew-proof and have a one-piece sipper tube design			
7	Specific Requirments- Racks			
7.1	Racks shall be supported by polyurethane wheels for free movement with brakes			
7.2	10 % of total number of polyurethane wheels shall be provided as spare for replacement			
7.3	Wheel strength should be demonstrated to hold total weight of rack with cages and animals			
7.4	Single sliding rack with frame support on the rear end to avoid sliding of pans on the rear end.			
7.5	The racks shall be corrosion resitant and cleanable with regular disinfectant solutions			

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8	Other requirement				
8.1	Each item wise sample should be sent for approval (pan,waterbottle,feed hopper and guinea pig rack)				
9	Regulatory aspects				
9.1	Should be compliant to CPCSEA requirements.				
10	Safety requirements				
10.1	Guinea pig pans, racks and bottles shall be with smooth edges and easily cleanable with no residues.				
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	Pans and rack washer user manual.				
11.2	Autoclave user manual.				
11.3	Detergent Technical specifications				
12	Timelines				
12.1	Not Applicable				
	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
NA	Animal House	Refer Annexure			
Table-2: Change Log					
Date	Name	Revision	Section	Change/Comment	
08-01-2016	Niharika	00	-	New document	
Table-3: Annexure					

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INTEGRATED VACCINES COMPLEX, CHENGALPATTU

Equipment Name

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Block	Area	Room No	No. of SS Pans	No. of cage Racks	Room Area (Approx) m2	Room Height (m)
Animal House	Quarantine	G1G026	16	4	16	2.7
	Breeding Area	G1G027	32	8	24	2.7
		G1G028	36	9	28	2.7
		G1G029	36	9	28	2.7
		G1G030	36	9	28	2.7
		G1G031	36	9	26	2.7
		G1G032	36	9	26	2.7
		G1G034	36	9	26	2.7
		G1G035	36	9	26	2.7
	Testing Area	G1G058	36	9	28	2.7
		G1G059	36	9	28	2.7
		G1G060	40	10	30	2.7
		G1G061	36	9	26	2.7
		G1G063	36	9	26	2.7
		G1G064	40	10	30	2.7
		G1G065	36	9	28	2.7
	Sick Animal room	G1G096	4	1	17	2.7
Total			564	141		
Additional for replacement			282	9		
Total			846	150		