

Equipment Specification Data Sheet

Equipment Name: Mice Cages & Cage Racks

Document No.: DS-CSM 01

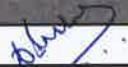
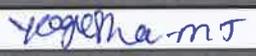
Revision: 01

Project No.: 120310

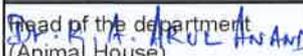
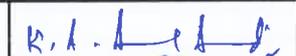
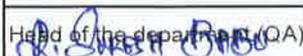
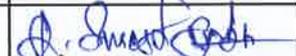
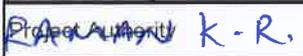
Project Name: Integrated Vaccines Complex, Chengalpattu

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		2016-03-18
Checked by			
Mr. Yogesha M J	Engineer - Process		2016/03/18
Approved by			
Mr. Krishna Amrutham	Lead Engineer - Fill & Finish		2016/03/18

HLL Biotech Limited

Name	Designation	Signature	Date
Reviewed by			
User department: (Animal House) 	Deputy Manager		21.03.2016
Project / Engineering department 	Manager		21.03.2016
Approved by			
Head of the department (Animal House) 	MANAGER		21.03.2016
Head of the department (QA) 	DDM		22.03.2016
Authorized by			
Project Authority 	CEO		22/3/16

Equipment Specification Data Sheet

HLL Biotech Limited, Chennai

nne pharmaplan®	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		
	Equipment Name	Caging system for Mice	
	Project #	120310	
	Document #	DS CSM 01	

1	Process requirements	
1.1	This caging system shall be used for housing laboratory mice considering the space requirement per animal as specified by CPCSEA	
2	Equipment ID	
2.1	NA	
3	Technical Specification- Cages (Cage Bottoms, Cage top grill and water bottles)	
3.1	Cage body construction	Polypropylene cage bottoms
3.2	Design of the cage	Shall be robust / strong and autoclavable at 121 °C temperature
3.3	Thickness of the cage	Vendor to specify
3.4	Cage Grill	Should suite to the cage dimension. Superior finish SS 304. Grill should have lockable hook to fit it to the cage.
3.5	Spacing between Cage grills	4 mm
3.6	Space provisions (feed/water) Cage grill	Separate provisions on the SS cage top grill with seperator for pellet feed and water bottle. Feed and water bottle groove (depth) shall be designed considering animal access from the cage bottom level (V Shape groove).
3.7	Water Bottle	250 - 300 ml bottle and autoclavable
3.8	MOC of water bottle	Poly carbonate transparent wide mouth water bottle with gasket
3.9	Bottle Cap	Water bottle cap should be made of SS 304 with Nipple - SS nozzle / SS ball. Nozzle should be leak free when fitted with bottle and positioned in the cage in inclined fashion
3.10	Card holder	SS hook welded to the cage grill in the middle
3.11	Cage Dimensions	410-430 mm X 270-282 mm X 120- 150 mm (LXWXH)
3.12	Quantity	5490 nos of cages, cage top grills and water bottles each
4	Technical Specification- SS Cage Racks	
4.1	Capacity	To hold 30 Cages of above said cage dimensions
4.2	Dimensions	Vendor to specify. Sufficient spacing to be considered for placement of cages
4.3	MOC	Superior finish SS 304 - Fabricated by 1"x1"16 swg steel square pipe and SS angles shall be provide to keep Cages (1.25"x1.25"x16 swg angle). 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
4.4	Wheels	4 nos for each rack with superior quality polyurethane wheels. 2 Wheels shall be with brakes
4.5	Pattern and spacing of cages in the cage rack	6 X 5 pattern ie., 6 slots per row / 5 rows. After accomodating cages, a minimum 10 cm space to be provided between each cage row or 26 cms space between each row
4.6	Cage rack pattern	Sliding type rack for positioning of the mice cages
4.7	Quantity	135 nos

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5	Specific Requirments- Cages
5.1	The cages shall have guaranteed uniform quality with minimal dirt traps and excellent stackability for ease of handling and storage
5.2	Cage top grill 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.
5.4	The polycarbonate material shall be of food grade quality
6	Specific Requirments- Water bottle
6.1	The water bottles shall be sturdy enough to with stand frequent autoclave cycles.
6.2	It shall be autoclaveable at 121 °C
6.3	The bottle shall be graduated upto its maximum mark
6.4	The graduations shall be embossed and moulded graduations
6.5	The bottles shall be made of rigid walls, cannot be squeezed when handling.
6.6	The bottles shall have wide mouth to aid filling and emptying, whilst also ensuring effective washing.
6.7	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 Sided rack with frame support on the rear end.
7.5	The racks shall be corrison resitant and cleanable with regular disinfectant solutions
8	Other requirement
8.1	Each item wise sample should be sent for approval (Eg. Cage,Cage grill,Water bottle and ss cage rack)
9	Regulatory aspects
9.1	Should be compliant to CPCSEA requirements
10	Safety requirements
10.1	Cages, racks and bottles shall be with smooth edges and easily cleanable with no residues.

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11	Documents
11.1	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
11.2	Detergent Technical specifications to suit washing of the above mentioned items.
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

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Table-3: Annexure

Block	Area	Room No	No. of cages	No. of cage Racks	Room Area (Approx) m ²	Room Height (m)
Animal House	Quarantine	G1G024	120	4	12	2.7
		G1G025	120	4	12	2.7
	Breeding Area	G1G036	300	10	28	2.7
		G1G037	300	10	28	2.7
		G1G038	300	10	28	2.7
		G1G039	270	9	24	2.7
		G1G050	300	10	26	2.7
	Testing Area	G1G051	360	12	30	2.7
		G1G052	360	12	28	2.7
		G1G053	300	10	28	2.7
		G1G054	270	9	24	2.7
		G1G076	300	10	25	2.7
	Challenge Area	G1G077	300	10	28	2.7
		G1G096	60	2	17	2.7
	Total			3660	122	
Additional for replacement			1830	13		
Total			5490	135		