

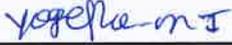
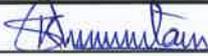
Equipment Specification Data Sheet Equipment Name: Garment Pressing Station

Document No.: DS-GPS 01 Revision: 01

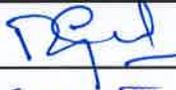
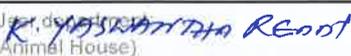
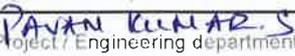
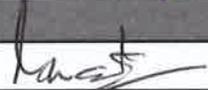
Project No.: 120310 Project Name: Integrated Vaccines Complex, Chengalpattu

Block Code	Block Name	Identification No.	Pressing table / Buck dimension, (min) L x W in mm	Quantity
G12	Central Change room and Central Laundry	G12-GPS 01, 02, 03, 04	1500 x 600	4
G1	Animal House	G1-GPS 01	1500 x 600	1

**NNE Pharmaplan India Limited**

Name	Designation	Signature	Date
<b>Prepared by</b>			
Mr. Manohar M S	Engineer - Process		16/12/2015
<b>Checked by</b>			
Mr. Yogesha M J	Engineer - Process		16/12/2015
<b>Approved by</b>			
Mr. Krishna Sattaya Amrutam	Lead Engineer - Fill Finish		16/12/2015

**HLL Biotech Limited**

Name	Designation	Signature	Date
<b>Reviewed by</b>			
User department (Central Laundry block) 	Assistant manager		18-12-2015
User department (Animal House) 	DM - Animal House		18-12-2015
Project / Engineering department 	DM - Projects		18/12/2015
<b>Approved by</b>			
Head of the department (Central Laundry block) 	Head - vaccines Development		20/12/2015
Head of the department (Animal House) 	MANAGER - ANIMAL HOUSE		21.12.2015
Head of the department (Quality Assurance) 	APM - QC PQA		21.12.2015
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Project manager 	C.E-O		22-12-15

Equipment Specification Data Sheet			
HLL Biotech Limited, Chennai			
nne pharmaplan	INTEGRATED VACCINES COMPLEX, CHENGALPATTU		
	Equipment Name	Garment Pressing Station	
	Project #	120310	
	Document #	DS-GPS 01	
<b>1</b>	<b>Process requirements</b>		
1.1	This equipment shall be used press the washed & dried garments in a biopharma facility.		
<b>2</b>	<b>Equipment ID</b>	<b>Pressing table / buck min dimension, L x W in mm</b>	<b>Quantity (no's)</b>
2.1	G12-GPS 01, 02, 03, 04, G1-GPS 01	1500 x 600	5
<b>3</b>	<b>Technical Specification</b>		
3.1	Model	cGMP (Industrial)	
3.2	Type	Flat Pressing table and Semi-automatic	
3.3	Cloth type	Cotton, Linen free cloth, Polyester	
3.4	Head operation type	Pneumatic and automatic	
3.5	Operating temperature	Vendor to specify (settable)	
3.6	Pressing time	Settable (units shall be in minutes)	
3.7	Pressing pressure	Vendor to specify (settable)	
3.8	Heating type	Electrical / Steam	
3.9	Hinged type Head	Required	
3.10	Lever / Button to open / close the head	Required	
3.11	Buck pad covering	One layer of asbestos cloth One layer of cotton knitted padding / two layers of blanket One layer of cotton cloth (external)	
3.12	Electrical Requirement	To be compatibility to the standard Indian Power supply sockets	
3.13	External dimation (W x D x H) mm	Vendor to specify	
<b>4</b>	<b>Material of Construction</b>		
4.1	Clean room compliant and compatible for standard cleaning agents used in pharma / Biopharma facility		
<b>5</b>	<b>Specific Equipment requirment</b>		
5.1	Machine should be provided with Micro processor based control system.		
5.2	Equipment shall be compatible to press wide range of cloths comonly used pharma / biopharma facility.		
5.3	Settable parameter (pressing temperature, pressing time, pressing pressure etc.) accurate and vendor to specify the accuracy percentage.		
5.4	Head shall be designed in such a way that pressure is applied uniformly over the buck.		
5.5	Equipment shall be designed to ensure a gentle, rapid and uniform treatment of all fabrics.		
5.6	The mechanical parts shall be properly covered & sealed so that only SS parts are exposed inside the clean room.		
5.7	Alarm / indication shall be provided if the operator does not open the head after exceeding the pressing time and buffer time.		
5.8	Head shall be opened ensuring the safety of the operator.		
5.9	The amount of pressure exerted between the head and the buck during pressing shall be easily and quickly changable to suit the requirements of different kinds of garments of varying thickness.		

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5.10	Proper earthing should be provided. Client will provide earthing through the incoming power supply cable. Necessary termination to be provided in the termination point.	
5.11		
5.12	Utility Consumption (Vendor to Specify the requirement): Compressed air :----- Electricity :----- Steam consumption:-----	
6	<b>Other requirement</b>	
6.1	All the wiring should be neatly dressed in PVC cable trays with Covers	
6.1	All Electrical parts including the MCB's, Relays, connectors etc must be fixed on DIN Rails/Fixed boards for easy Maintenance	
6.1	All connections inside must be provided using Terminal Blocks/connectors fixed on DIN Rail / fixed board. No Open Joints are allowed	
6.1	All connections to the terminal block/connectors are to be done using 'Cable lugs with Insulation' of appropriate sizes and the same has to be crimped tightly	
6.1	Proper Ferruling and Tagging of every individual cable (Control & Power)	
6.1	All Electrical Components like, VFDs, Relays, Terminal Blocks etc. must be tagged. This should reflect in the Wiring Diagram to be Submitted along with other documents	
6.1	A wiring Diagram incorporating and matching with the cables laid should be provided with the machine	
6.1	The electrical Wiring Diagram with the Operating Manual, should be explicitly provided by vendor.	
6.2	All bolts, nuts on the exterior part of equipment should be with cap head or cap nut.	
6.3	There should be no crevices, so as to avoid dust accumulation	
7	<b>Regulatory guidelines / standards</b>	
7.1	Not Applicable	
8	<b>Safety requirements</b>	
	Following facilities must be provided to protect personnel and equipment:	
8.1	Appropriate closure of all parts.	
8.2	On power failure equipment should come in failsafe condition	
8.3	Appropriate closure of all parts	
8.4	Proper earthing is necessary	
8.5	Noise level should be below 70 decible at a distance of 1m from the equipment	
8.6	System shall be insulated properly	
9	<b>Documents</b>	
	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	
9.1	IOQ document.	
9.2	Operation and maintenance manuals shall be provided along with IOQ documents during installation at site.	
9.3	Warranty Letter for minimum 1 year from the date of supply.	
9.4	Vendor should provide list of standard spare parts with ordering information.	
9.5	Vendor should provide list of change parts (if applicable) with ordering information.	
10	<b>Timelines</b>	
10.1	Not Applicable	
11	<b>List of Preferred Makes</b>	
11.1	IFB, Godrej, Ramsons	
	<b>NOTE:</b> Accurate size and technical specification need to be mentioned by the vendor	