

**DATA SHEET**

**HLL LIFECARE LIMITED, CHENNAI**

<b>nne pharmaplan®</b>	<b>REVIVAL OF BCG VACCINE LABORATORY, GUINDY, CHENNAI</b>		
	<b>Industrial Garment Washing Machine</b>		
	PROJECT #:	110729	
	EQ. ID #:	FG-GWM 01_BF-GWM 01	
	DOCUMENT # :	DS/FG-GWM 01_BF-GWM 01	

**1 Process requirements**

1.1 To wash and dry the clean room garments

**2 Technical Specification**

2.1	Model	cGMP (Industrial)
2.2	Type	Front loading, automatic washer cum dryer
2.3	Capacity	Minimum 15 kg of dry weight of laundry or nearest standard capacity
2.4	Drum Speed, Wash Speed, Spin speed, G-Factor Spin Speed	<b>Vendor to specify</b>
2.5	Heating	Electrical
2.7	Inlet Connection	PW (Purified Water)
2.8	Door Hinge	Left
2.9	Protection for motor	IP 54
2.10	Quantity	2 nos



**3 Material Of Construction**

3.1	All contact parts with garments (Cabinets, inner drum, tub, inlet and outlet connections, door frame etc.)	SS 304
3.2	Legs	SS 304
3.3	HOSE pipe	silicon or PTFE type (It should be non corrugated)

**4 Specific requirement**

- 4.1 Machine should be provided with Micro processor/ PLC control
- 4.2 Electronic frequency drive motor to be provided for variable working and spin speed.
- 4.3 One dispenser for additives with pump must be provided. ( Normally 10-15 gm of common detergent per Kg of clothes)
- 4.4 The cylinder beaters should be designed to ensure a gentle, rapid and uniform treatment of all fabrics.
- 4.5 The mechanical parts shall be properly covered & sealed so that only SS parts are exposed inside the clean room.
- 4.6 Door should be suitably big for easy loading and unloading of garments.
- 4.7 Acceleration and Braking should be gradual and adjusted via VFD/Electronically.
- 4.8 Toughened glass view panel to be provided in the door with proper leakproof sealing
- 4.9 Door interlock with motor functioning shall be provided.
- 4.10 Overload protection/ Indication & alarm shall be provided
- 4.11 Water filling / Draining shall be controlled by control panel
- 4.12 Machine shall be provided with inbuilt extractor facility for the clothes also with spinning drum.
- 4.13 Machine shall be provided with balance control.
- 4.14 Foundation for the machine and erection on the same under the scope of the supplier.
- 4.15 Machine should have total water protection.

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<b>5</b>	<b>Other requirements</b>	
5.1	Machine should be programmable for specific linen type and specific linen processing.	
5.2	Memory presettings for different washing cycles.	
5.3	LED display to indicate the progress of the cycle.	
5.4	Proper earthing should be provided. Client will provide earthing through the incoming power supply cable. Necessary termination to be provided in the termination point.	
5.5	Drain connection with drain hose (Up to drain point in Vendor scope). Vendor to ensure that water flows out gradually, or providing necessary sealings with the floor traps so that water doesn't not gush out turbulently during drain.	
5.6	Energy efficiency class B.	
5.7	<b>Utility Consumption (Vendor to Specify):</b> Purified Water consumption/ cycle:----- Electricity Consumption:-----	
5.8	<b>Vendor to Specify:</b> Drum Size as per 15 Kg (Minimum, dry weight of laundry) :----- Drum minimum/ maximum RPM : ----- % of drying :-----	
<b>6</b>	<b>Regulatory guidelines / standards</b>	
	<i>CE Certification or VDE Certification</i>	
<b>7</b>	<b>Safety requirement</b>	
	NA	
<b>8</b>	<b>Electrical Requirement</b>	
8.1	All the wiring should be neatly dressed in PVC cable trays with Covers	
8.2	All Electrical parts including the MCB's, Relays, connectors etc must be fixed on DIN Rails/Fixed boards for easy Maintenance	
8.3	All connections inside must be provided using Terminal Blocks/connectors fixed on DIN Rail / fixed board. No Open Joints are allowed	
8.4	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	
8.5	Proper Ferruling and Tagging of every individual cable (Control & Power)	
8.6	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	
8.7	A wiring Diagram incorporating and matching with the cables laid should be provided with the machine	
8.8	The electrical Wiring Diagram with the Operating Manual, should be explicitly provided by vendor.	
<b>9</b>	<b>Documents</b>	
9.2	IOQ Protocol.	
9.4	Operation and maintenance manuals.	
9.5	List of Makes for the components used.	
9.6	Comprehensive 1 year warranty after the successful installation and handing over to the client.	
<b>10</b>	<b>Timelines</b>	
	NA	
	<b>NOTE:</b> Accurate size and technical specification need to be mentioned by the vendor.	
	AFI Approved for Enquiry	AFO Approved for Ordering

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5	2014-02-04	MNS	SDBB	<input type="checkbox"/>	<input type="checkbox"/>	
Rev	Date	Completed By	Checked By	AFI	AFO	Sheet 1/2

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**Garment Washing Machine**

**PROJECT #:** 110729

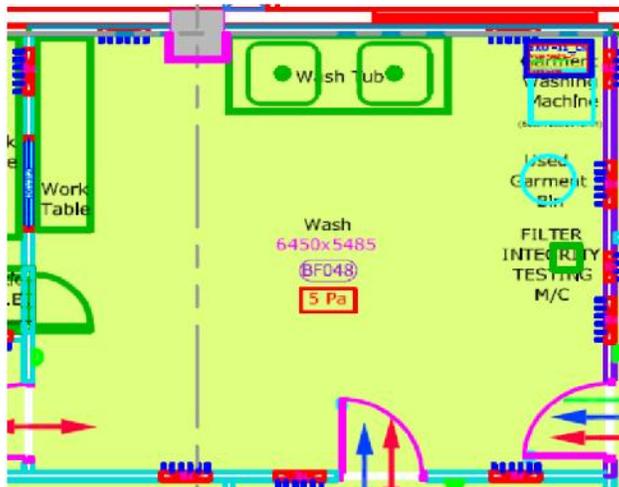
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<b>ROOM LOCATION:</b>	FG-GWM 01
1	GROUND FLOOR
2	<b>ROOM DIMENSION:</b> L(4075mm) X W(3660mm)
3	<b>FALSE CEILING:</b> 2400mm
4	<b>ROOM PRESSURE :</b> 5 Pa



<b>ROOM LOCATION:</b>	BF-GWM 01
1	FIRST FLOOR (FORMULATION AREA)
2	<b>ROOM DIMENSION:</b> L(6450mm) X W(5485mm)
3	<b>FALSE CEILING:</b> 2400mm
4	<b>ROOM PRESSURE :</b> (5) Pa



AFI Approved for Enquiry

AFO Approved for Ordering

5	2014-02-04	BKSH	VKKA	<input type="checkbox"/>	<input type="checkbox"/>	
Rev	Date	Completed By	Checked By	AFI	AFO	Sheet 2/2