



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.
(sponsored by government of Kerala & aided by govt. of India)
Office: Pathirappally, Alappuzha, Kerala, India - 688 521

Phone : 477 2258012
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Website : www.homcokerala.com

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Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	Production (Mother Tincture) – Second Floor
Equipment and Code No.	:	1) Supply, installation and qualification of fully automatic Bottle washing and drying machine.
Name of work	:	Supply, Installation, Commissioning & qualification of fully automatic Bottle washing and drying machine at M/s. HOMCO –Kerala at Second floor production Mother tincture section.
Ref. No.	:	
Date	:	
Enclosures	:	
Qty.	:	1 Nos.



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FULLY AUTOMATIC BOTTLE WASHING AND DRYING MACHINE

1.0 : LIST OF EQUIPMENT'S

(To be specified by the supplier, if any variation)

S No	Equipment Name	Capacity	Requirement	Vendor Comments
1.1	Turn table	30 to 40 per minute	For loading the empty bottles	
1.2	Bottle washing machine		For cleaning of the bottles with the pressurized water.	
1.3	Hot Air jet cleaning machine / Hot Air drying system on movement		For drying the moisture content in the bottle	
1.4	Turn table		For collection of the cleaned bottle before filling	

2.0

:

PROCESS REQUIREMENT DETAIL

Container type: Glass

Container shape: round

Size: 15 ml, 30 ml, 100 ml.

Environment condition of the operating area: 20 to 25 °C

The process should be completely automatic.

1. Bottle washing need to be done with Potable water and rinsed with purified water and need to be hot air dried no trace of moisture should be available in the bottle.
2. Entire conveyor from the machine start to end table need to be provided by the vendor.
3. Inbuilt control panel need to be provided.
4. Only incoming power will be connected to the panel, all cabling from the main panel to the machine need to be done by the vendor. Required SS conduit need to be used for dropping cables and utility points.
5. Bottle washing and drying should be in a closed glass chamber no water should be spited outside

Vendor Comments:



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3.0

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DESIGN REQUIREMENT DETAIL

Design requirement need to be as per the Annexure I Equipment layout drawing

Vendor Comments:

4.0

:

DETAILS OF THE MACHINE

(To be specified by the supplier, if any specification variation is required)

S No	Description	Requirement	Vendor Comments
4.1 Automatic Bottle Washing Machine:			
4.1.1	MOC	SS 304	
4.1.2	Cleaning medium	Potable water & Compressed air	
4.1.3	Wash Cycle	Cleaning & drying	
4.1.4	Pump system	Required pumps for supply pressurized water need to be provided.	
4.1.5	Air	Compressed air need to be used	
4.1.6	Number of cleaning nozzles	As per the speed of the out the nozzles need to be designed	
4.1.7	Bottle height	35 to 150 mm	
4.1.8	Suitability	Single washing machine should be able to clean the 3 types of the bottles with machine internal setting adjustment. (15 ml , 30 ml & 100 ml)	



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S No	Description	Requirement	Vendor Comments
4.1.9	Dryer	Drying should be done through hot air blowing, Electrical heater need to be provided for the heating purpose / Steam connection also available it possible steam can be used for heating hot air.	
4.6 Turntable :			
4.6.1	Quantity	Based on the operation requirement, necessary turntables need to be provided.	
4.6.2	MOC	SS 304	
4.6.3	Speed	Variable speed depending on the machine speed.	
4.6.4	Diameter	800 mm	

5.0 : OPERATIONAL & CONTROL FEATURES

S No	Description	Requirement	Vendor Comments
5.1	Controls	<ul style="list-style-type: none">(i) Bottle Jammed – Machine stop system interlock need to be provided.(ii) All graphical indication for the operation need to be provided in the machine(iii) Overall operation in single control(iv) Audio–visual alarm with tower lamp need to be provided for indicating alarms.(v) MCB's and contactors should be provided for all electrical operation.(vi) Pilot lamp to indicate operating status of the equipment.(vii) Complete internal wiring to ensure power supply at a single point on the panel.(viii) Indication lamp for power supply is required.	

Note: Bottle size need to take before starting the manufacturing of the machine.



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S No	Description	Requirement	Vendor Comments
5.2 Instrumentation :			
5.2.1	HMI (Human machine interface)	10 inch and above size HMI screen need to be provided for better operation of the Equipment at individual station.	
5.2.2	Pressure sensor/ pressure switch	Alarm should be generated, when there was compressed air pressure.	
5.2.3	Control panel	1 no. for the Equipment	
5.2.5	Guarantees	<p>The supplier should guarantee the following:</p> <ul style="list-style-type: none">• The machine should be guaranteed for trouble free operation for a period of 12 months from the date of successful commissioning of the unit.• The supplier shall rectify, at their own expense, for any defects arising from defective materials or unsatisfactory performance of the Equipment, to the satisfaction of the purchaser.	



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6.0 : SAFETY & ELECTRICAL DETAILS

(To be specified by the supplier, if any variation)

S No	Description	Requirement	Vendor Comments
6.1 Controls and safety :			
6.1.1	Emergency Switch	Emergency switch should be provided at the all machines control panel for operator ease access.	
6.1.2	Safety Interlocks	Machine to machine interlock should be provided machine should operate at required set speed.	
		Proximity sensor or door limit switches need to be provided to all moving parts doors. Machines should stop when the doors are open.	
6.1.3	Guards	Safety tough glass guard need to be provided for all major moving parts.	
6.2 Electrical Panel :			
<ul style="list-style-type: none">Single control panel must be provided for the system. It should contain all necessary switchgears, safety alarms/interlocks, sensors.SS conduit for bringing power supply, compressor line need to be provided by the vendor.			
6.2.1	Standard Operating Frequency	50 Hz	
6.2.2	Standard Operating Voltage	230 / 415V	
6.2.3	Total power consumption		
6.2.4	Motor Details with rpm		
Any other detail not mentioned above, but required also to be informed & included in the scope of supply by the vendor.			



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DESCRIPTION

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Miscellaneous:

- ❖ All the Component Makes should match the Approved Makes list provided.
- ❖ Any deviation from this should be documented and communicated to HOMCO for approval before submitting tenders.
- ❖ All Calibration Certificates are to be produced during Installation of Machine, without which the Installation is deemed incomplete. All the Certificates should be Traceable to National / International Standards.
- ❖ The Validity of Calibration shall be minimum 9 months and maximum 12 months from the date of Installation.
- ❖ All the Signal Cables should be shielded to avoid interference.
- ❖ Complete Earthing of Equipment.
- ❖ Complete covering of Electrical Cables and Other Connections.
- ❖ All required spare kit need to be provided along with the supply.

Approved Makes:

1. PLC & HMI - Mitsubishi / Siemens / ABB



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7.0 : UTILITY REQUIREMENT

(To be specified by the supplier, if any variation)

S No	Description	Requirement
7.1	Water	
7.2	Compressed Air	
7.3	Oil	
7.4	Any other	

Note: All necessary and required utilities with any filters along with required housing and accessories should be provided by vendor.

To be specified and confirm by the supplier as per their equipment's design requirement with pressure and flow rate along with any valve, pipe / nozzles size required alongwith scope of supply.



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8.0 : CLEANING TECHNIQUE

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Mode of machine cleaning	:	
Use of Lubricants	:	
All contact parts should be easily dismantled and cleanable.		
Easy washing and cleaning facility should be available		
Drain points: Vendor should specify the pipe size and location of drain points if required as per their system's drain requirement with pipe /nozzle size, valve etc.		

To be specified and confirm by the supplier as per their equipment design

9.0 : MECHANICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Dimension (In mm)	:	Should be limited below are equal to as per the annexure 1 drawing
Net Weight (In Kgs.)	:	
Type of Packing	:	
Case Dimension (In mm)	:	
Gross Weight (In Kgs.)	:	
Foundation details if required	:	

To be specified and confirm by the supplier as per their equipment design



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10.0 : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS

DESCRIPTION

(To be specified by the supplier, if any variation)

Vendors should inform, provide details and consider scope of supply for the following:

- Recommended Spares part list
- Essential Spares (For 1 year) need to be quoted along with the machine.
- If any items required but not included in URS, to be mentioned and submitted with unit rate and quantity (And it can be informed to client during pre-bid meeting or before POWO)
- Any other ancillary or accessories or optional items not mentioned above but required for successful operation should also to be informed in advance before POWO
- Any other ancillary, or accessories or optional items not mentioned also to be quoted
- Details of Bought out components to be specified.

To be specified and confirm by the supplier as per their equipment design

11.0 : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for the Installation, Operation, and Maintenance of liquid filling machine provided by vendor and training record should be documented.
- Testing of control panel should be carried out in presence of customer/Client's representative at the place of manufacturer before delivery.
- Vendor shall support client in execution of all the Qualification Phases.



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12.0 : DOCUMENTATION

List of all Documents to be supplied along with equipment [AS APPLICABLE]

Sr. No.	Document to be supplied	Qty	Vendor Remarks
12.1	Design qualification	1 sets	
12.2	SAT/FAT procedures	1 sets	
12.3	Operation manual	1 sets	
12.4	Maintenance manual	1 sets	
12.5	Spare parts manual	1 sets	
12.6	All engineering drawings (GA drawings)	1 sets	
12.7	List of instruments	1 sets	
12.8	Calibration certificates	1 sets	
12.9	Warranty / Guarantee	1 sets	
12.10	List of all components with referencing	1 sets	
12.11	Civil foundation drawings- If required	1 sets	
12.12	Pre installation requirements	1 sets	
12.13	Installation requirements	1 sets	
12.14	Installation manual	1 sets	
12.15	Technical literature, data sheets and equipment catalogues	1 sets	
12.16	DQ, IQ, OQ documents.	1 sets	
12.17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	1 sets	
12.18	Test Certificates of all material of construction	1 sets	
12.19	Test Certificates of the software used in machine control / monitoring system.	1 sets	



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13.0 : TERMS AND CONDITIONS

S No	Description	Requirement	Vendor Comments
1.	Delivery Period	Required details from vendor	
2.	Payment Terms	As mentioned in tender.	
3.	Packaging and Forwarding to the site	By Vendor	
4.	Un-loading at site and positing the machine at the required area where the machine need to be installed (second floor area)	By vendor /Supplier (cost & man power arrangement need to be done by the vendor) During unloading and positioning a representative from Vendor need to be at the site. under the client's supervision	
5.	Excise / Taxes /GST	Required details from vendor	
6.	Material for Trial arrangement	(To be arranged by client)	
7.	Installation and Commissioning, support need to be provided till the 3 trail with product at PQ stage.	By Vendor	
8.	Response to URS and submission of quotation	Within 2 week	
9.	Submission of detail functional design specification and schematic drawings	Within a week after order finalization	
10.	Submission & Execution of FAT / SAT specification	2 weeks before FAT document need to be provided Complete operation of the machine need to be made trail at the vendor factory after satisfactory FAT, client will provide the clearance for dispatch.	



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S No	Description	Requirement	Vendor Comments
11.	Submission and Execution of IQ AND OQ documents	With equipment need to be delivered, Engineer need to be assigned for performing the IQ, OQ test and PQ. Engineer should be assigned to coordinate with the client and perform the PQ test of the machine. All Supporting documents for the IQ and OQ need to be provided by the vendor.	

The supplier should notify customer 2 weeks in advance of the beginning of FAT, customer visit the factory for FAT test, based clearance machine can be dispatched.

Any other terms, not mentioned above, also to be specified.



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14.0 : ABBREVIATION

14.1	URS	:	User Requirement Specification.
14.2	DQ	:	Design Qualification
14.3	IQ	:	Installation Qualification
14.4	OQ	:	Operational Qualification
14.5	PQ	:	Performance Qualification
14.6	SS	:	Stainless Steel
14.7	RHS	:	Right Hand Side
14.8	MOC	:	Material of Construction
14.9	KW	:	Kilo Watt
14.10	HP	:	Horse Power
14.11	RPM	:	Rotation Per Minute
14.12	FLP	:	Flame Proof
14.13	cGMP	:	Current Goods Manufacturing Practices
14.14	O&M	:	Operation and Maintenance
14.15	GA	:	General Arrangement
14.16	SLD	:	Single Line Diagram
14.17	HOD	:	Head of Department
14.18	QA	:	Quality Analysis
14.19	MRP	:	Maximum Retail Price
14.20	NMT	:	Not more than
14.21	BPM	:	Bottles per minutes

Any other details, not mentioned in section 1.0 to 14.0, to be specified in the quotation/specification by the vendor.