



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.

(sponsored by government of Kerala & aided by govt. of India)
Office: Pathirappally, Alappuzha, Kerala, India. Pin-688 521

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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	:	Ointment - (Ground Floor)
Equipment and Code No.	:	Ointment /Cream Manufacturing Plant
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Ointment/Cream Manufacturing Plant - 100 KG at M/s. HOMCO -Kerala
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	1 No.



CONSULTANT : M/S. KNACK TECHNOCRATS

111, AVINASH, 7 BUNGALOWS, J.P. ROAD, ANDHERI (W), MUMBAI - 400 053
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OINTMENT/CREAM MANUFACTURING PLANT - 100 Kgs (STEAM HEATED)

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION (To be specified by the supplier, if any variation)	
Scope	: • Supply, Installation, Commissioning & Validation of cGMP model SS 316 Ointment - CREAM Manufacturing Plant with all interconnecting piping, pumps, SS platform etc. and all the items which is required to run the plant along with connecting accessories, cables etc. at M/s. HOMCO -Kerala
Machine	: Ointment/Cream Manufacturing Plant (Steam heated plant)
Model	: *
Type	: *
Capacity (In litres)	: Working: 100 kgs * : Net : 120 to 125 liters * : Gross : 150 to 160 liters*
The Main plant Consist of	: 1) Manufacturing Vessel 2) Wax Vessel 3) Water Vessel 4) Storage Vessel 5) Twin Lobe Pump (2 Nos) 6) Transfer Pump 7) Vacuum Pump and 8) Interconnecting piping 9) Working platform 10) Control panel
➤ The vendor shall design the vessels based on the capacity mentioned. The design including calculation and drawings shall be appraised by the Pharma Consultant.	

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



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ANNEXURE - II, III AND IV : CGMP FEATURES PROCESS CONTROL OPERATIONAL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
1) Manufacturing Vessel	
Capacity	: Working : 120 to 125 liters (100 Kgs) : Gross : 150 to 160 liters *
MOC	: Contact parts : SS 316 Non-contact parts : SS 304
Specific gravity	: 0.9 gm/cc *
Shell	: 5.0 mm thick SS 316 cylindrical with flange *
Bottom	: 5.0 mm thick SS 316 conical dish end welded with shell*
Top	: 5 mm thick SS 316 Tori spherical dish end welded with flange *
Flange	: 16 mm thick SS 316 -2 Nos. welded *
Jacket	: 4 mm thick SS 304 with spiral stiffeners*
Gasket	: Food Grade Silicon Gasket*
Insulation	: 50 mm thick mineral wool duly cladded with 14 SWG SS 304 sheet *
Legs	: 4 Nos. SS 304 pipe with base plate to suit load cell bracket*
Load cell	: 4 Nos. , with junction box and FLP digital weight indicator and 0.05% accuracy least count 500 gms in total volume*
❖ Hydraulic Lifting Arrangement to lift top Agitator Assembly with Lid	

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



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Vessel Connections :	
Hand hole	: 150 mm dia with hinge type lid and silicon 'O' ring*
Light glass	: 4" dia with flange*
Sight glass	: 4" dia Flange on hand hole Lid*
Vacuum Inlet	: 1 ½" dia TC end*
CIP connection	: 2x1" dia TC 1 nos. with common header for spray ball*
Pressure Transmitter	: 1½" dia TC *
Extra nozzle	: 1" dia TC end -1 no. *
Anchor Stirrer	: On center of top dish*
Product recirculation	: 1½" dia TC end (On top of dish) *
Product temperature	: 1½" dia TC end *
Product outlet	: Through homogenizer by Tee connection*
Homogenizer	: In line, Rotor & Stator type, Skid mounted,*HP/2800 rpm/415 V (FLP) for re-circulating the material back into the vessel and used to transfer product mounted at the bottom *
Vessel Design parameters :	
Working temperature	: 30 to 125 degree C. *
Design Temperature	: 20 to 135 degree C. *
Working pressure	: -1 to 2 kgs/cm sq. *
Design pressure	: -1 to 2.25 kgs/cm sq. *
Hydro test pressure	: -1 to 3.0 kgs/cm sq. *

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



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Jacket Design parameters :	
Working temperature	: 35 to 135 degree C. *
Design Temperature	: 25 to 150 degree C. *
Working pressure	: 4 kgs/cm sq. Working. *
Design pressure	: 4.5 kgs/cm sq. *
Hydro test pressure	: 5.5 to 6.0 kgs/cm sq. *
Jacket nozzles connections	: For Steam inlet, cooling water outlet, pressure gauge etc. 1½"dia TC end
Miscellaneous details	
Agitator	: Anchor type semi-contra designed with Teflon scrapper and self-adjusted*
Stationary Baffles	: 2 stationary baffles for breaking mass movement and push the mass on center*
Motor	: *HP /415 V/TEFC 1440 rpm (HMM Make-FLP). *
Gear Box	: 30:1 ratio *
Shaft seal	: Dry mechanical seal (Hi - Fab/Leak proof).Cartridge type double acting mechanical seal (Hi- Fab /Leak Proof) with cooling arrangement. For safety of mechanical seal flow switch is provided. *
Vessel Welding	: Vessel is argon arc welded & smooth grinding finish from inside & outside.
Vessel Finish	: Internally: 0.5 Ra. 240 grit Mirror polish) Externally: 0.8 Ra. 180 grit. (Matt finish)

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DESCRIPTION		
(To be specified by the supplier, if any variation)		
Accessories:		
VFD	:	Anchor Stirrer and Homogenizer
Compounding gauge	:	Diaphragm type
Pressure sensor	:	1 to 5.0 kgs/cm sq.
Spray ball	:	360-degree rotating type
Vessel Lamp	:	LED Lamp (FLP)
Sight glass with Wiper	:	100 mm dia
Vacuum Inlet	:	Pneumatic actuated BFV
Vacuum breaker with Filter	:	Pneumatic actuated BFV
Steam inlet/Condensate	:	Pneumatic actuated Valve with steam trap
Cooling Inlet/ Outlet	:	Pneumatic actuated Valve with jacket drain
Temperature sensor	:	TC end 0 to 250 - degree temp with class 'A' accuracy & Transmitter
CIP Inlet	:	Pneumatic actuated BFV
Hydraulic lifting arrangement	:	To lift top Agitator Assembly with Lid 500mm ht. including Hydraulic Power pack unit & FLP motor.
Load cell 4 Nos.	:	For vessel legs with junction box & FLP digital weights indicator with 0.05% accuracy least count 500gms in total volume
Skid	:	S.S 304
CIP	:	CIP Drain & Utility header along with 2 Nos.Pneumatic actuated BFV valve.

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DESCRIPTION	
(To be specified by the supplier, if any variation)	
2) WAX Vessel	
Capacity	: Working: 50 to 60 liters (50 Kgs) : Gross : 75 to 85 liters
MOC	: Contact parts: SS 316 Non-contact parts: SS 304
Specific gravity	: 0.9 gm/cc *
Shell	: 4.0 mm thick SS 316 cylindrical with flange
Bottom	: 4.0 mm thick SS 316 Elliptical dish end welded with shell
Top	: 4 mm thick SS 316 Tori spherical dish end welded with flange, manual lid lifting with davit arm
Flange	: 18 mm thick SS 316 -2 Nos. welded
Jacket	: 4 mm thick SS 304 with spiral stiffeners
Gasket	: Food Grade Silicon Gasket
Insulation	: 50 mm thick mineral wool duly cladded with 14 SWG SS 304 sheet
Legs	: 4 Nos. SS 304 pipe with base plate to suit load cell bracket
Vessel Connections:	
Hand hole	: 150 mm dia with hinge type lid and silicon 'O' ring
Light glass	: 4" dia with flange
Sight glass	: 4" dia on hand hole Lid.
Vacuum Inlet/VB/CG	: 1 ½" dia TC end
CIP connection	: 2"x1" dia TC 1 Nos. with common header for spray ball
Anchor Stirrer	: On center of the top dish

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



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Vessel Connections :	
Product temperature	: 1½" dia TC end
Product outlet	: Flush bottom valve
Vessel Design parameters :	
Working temperature	: 30 to 125 degree C.
Design Temperature	: 20 to 135 degree C.
Working pressure	: -1 to 2 kgs/cm sq.
Design pressure	: -1 to 2.25 kgs/cm sq.
Hydro test pressure	: -1 to 3.0 kgs/cm sq.
Jacket Design parameters :	
Working temperature	: 35 to 135 degree C. *
Design Temperature	: 25 to 150 degree C. *
Working pressure	: 3.5 to 4 kgs/cm sq. *
Design pressure	: 4.0 to 4.5 kgs/cm sq. *
Hydro test pressure	: 5.5 to 6.0 kgs/cm sq. *
Jacket nozzles connections	: For Steam inlet, cooling water outlet, pressure gauge etc. 1½" dia TC end

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



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Miscellaneous details	
Agitator	: Anchor type semi-contra designed with Teflon scrapper and self-adjusted
Motor	: * HP /415 V/1440 rpm (FLP)
Gear Box	: 30:1 ratio
Shaft seal	: Oil seal
Vessel Welding	: Vessel is argon arc welded & smooths grinding finish from inside & outside.
Vessel Finish	: Internally: 0.5 Ra. 240 grit (Mirror polish) Externally: 0.8 Ra. 180 grit (Matt finish)
Accessories:	
VFD	: Anchor Stirrer and Homogenizer
Compounding gauge	: Diaphragm type
Temperature sensor	: 0 to 250 degree C with class A accuracy & Transmitter
Spray ball	: 360-degree rotating type 3 Nos.
Vessel lamp	: LED Lamp (FLP)
Sight Glass with wiper	: 100 mm dia
Steam Inlet/Condensate	: Pneumatic actuated Valve with steam trap
CIP Inlet	: Pneumatic actuated BFV
Lid Lifting arrangement	: Manual with davit Arm
CIP	: CIP Drain & Utility header along with 1 Nos. Pneumatic actuated BFV valve

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



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DESCRIPTION

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

3) Water Vessel

Capacity	:	Working : 120 to 125 liters (100 Kgs) Gross : 150 to 160 liters *
MOC	:	Contact parts : SS 316 Non-contact parts : SS 304
Specific gravity	:	0.9 gm/cc *
Shell	:	5.0 mm thick SS 316 cylindrical with flange
Bottom	:	5.0 mm thick SS 316 conical dish end type welded with shell.
Top	:	5 mm thick SS 316 Tori spherical dish end welded with flange.
Flange	:	16 mm thick SS 316 -2 Nos. welded
Jacket	:	4 mm thick SS 304 with spiral stiffeners
Gasket	:	Silicon gasket
Insulation	:	50 mm thick mineral wool duly cladded with 14 SWG SS 304 sheet
Legs	:	4 Nos. SS 304 pipe with base plate

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



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DESCRIPTION

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

Vessel Connections :

Hand hole	:	150 mm dia with hinge type lid and silicon "O" ring
Light glass	:	4" dia with flange
Sight glass	:	4" dia on hand hole Lid.
Vacuum Inlet (VI/VB/CG)	:	1 1/2" dia TC end
CIP connection	:	2"x1" dia TC 1 no. with common header for spray ball
Product temperature	:	1 1/2" dia TC end at bottom of vessel
Product outlet	:	Flush bottom valve
Product temperature	:	1 1/2" dia TC end *
Product outlet	:	Flush bottom valve*

Vessel Design parameters :

Working temperature	:	30 to 125 degree C.
Design Temperature	:	20 to 135 degree C.
Working pressure	:	-1 to 2 kgs/cm sq.
Design pressure	:	-1 to 2.25 kgs/cm sq.
Hydro test pressure	:	-1 to 3.0 kgs/cm sq.

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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Jacket Design parameters :	
Working temperature	: 35 to 135 degree C. *
Design Temperature	: 25 to 150 degree C. *
Working pressure	: 3.5 to 4 kgs/cm sq. *
Design pressure	: 4.0 to 4.5 kgs/cm sq. *
Hydro test pressure	: 5.5 to 6.0 kgs/cm sq. *
Jacket nozzles connections	: For Steam inlet, cooling water outlet, pressure gauge etc. 1½"dia TC end
Miscellaneous details	
Agitator	: Anchor type semi-contra designed with Teflon scrapper and self-adjusted
Motor	: * HP /415 V/1440 rpm (FLP)
Gear Box	: 30:1 ratio
Shaft seal	: Oil seal
Vessel welding	: Vessel is argon arc welded & smooths grinding finish from inside & outside.
Vessel Finish	: Internally: 0.5 Ra. 240 grit (Mirror polish) Externally: 0.8 Ra. 180 grit (Matt finish)
Accessories:	
VFD	: Anchor Stirrer and Homogenizer
Compounding gauge	: Diaphragm type
Temperature sensor	: TC end 0 to 250 degree C with class A accuracy & Transmitter



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DESCRIPTION		
(To be specified by the supplier, if any variation)		
Spray ball	:	360 degree rotating type 3 Nos.Spray Tech make
Vessel Lamp	:	LED Lamp (FLP)
Sight Glass with Wiper	:	100 mm dia
Steam Inlet/ Condensate	:	Pneumatic actuated Valve with steam trap
CIP Inlet	:	Pneumatic actuated valve BFV
Lid lifting arrangement	:	Manual with davit Arm
CIP	:	CIP Drain & Utility header along with 1 Nos. Pneumatic actuated BFV valve.

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



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
4) Storage Vessel	
Capacity	: Working : 100 to 120 liters (100 Kgs) : Gross : 150 to 160 liters *
MOC	: Contact parts : SS 316 Non-contact parts : SS 304
Specific gravity	: 0.9 gm/cc *
Shell	: 5.0 mm thick SS 316 cylindrical with Flange
Bottom	: 5.0 mm thick SS 316 conical dish end welded with shell
Top	: 5.0 mm thick SS 316 Torispherical dish end type welded with the flange
Legs	: 4 Nos. SS 304 pipe legs.
Vessel connection	: Air vent : 1½" dia TC at top Outlet : 1½" dia TC with manual butterfly valve
Vessel Design parameters :	
Design temperature	: 4 to 50 degree C. *
Working Temperature	: 4 to 40 degree C. *
Working pressure	: Ambient *
Design pressure	: Water fill *
Vent filter	: 5 micron SS sintered filter 1.5" dia TC end



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Vessel Welding	: Vessel is argon arc welded & smooth grinding finish from inside & outside.
Vessel Finish	: Internally: 0.5 Ra. 210 grit (Mirror polish) Externally: 0.5 Ra.210 grit (Mirror polish)

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DESCRIPTION	
(To be specified by the supplier, if any variation)	
WATER RING VACUUM PUMP	
Type	: Water ring
Motor	: *HP/2800 RPM FLP/Foot Mounted *
Flow rate	: 50 cfm *
Ultimate Vacuum	: 710 mm of hg *
Water inlet flow required	: 7 liters per minute with pneumatic actuator valve and flow sensor auto operation.
Temperature	: Ambient Temperature
CIP RE-CIRCULATION PUMP	
Capacity	: 200 liters CIP tank with pump
Pump	: *HP/ FLP *
Flow rate	: 50 LPM*
Scope of supply	: To clean vessels and pipe line with re-circulation & CIP drain with conductivity sensor, transmitter, valves & pipe line etc.
MANUFACTURING VESSEL TO STORAGE VESSEL PUMP	
❖ Lobe Pump	
Capacity	: Max 1000 Kgs per hour depending upon product viscosity *
Motor	: * HP, 960 RPM, 3 Phase, 415V * (FLP)
Construction	: Aluminum Casting Body with powder coated. Internal Contact parts SS316 and non-contact parts SS304

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DESCRIPTION	
(To be specified by the supplier, if any variation)	
STORAGE VESSEL TO FILLING HOPPER LINE	
❖ Lobe Pump	
Capacity	: Max 500 Kgs per hour depending upon product viscosity *
Pump	: * HP, 960 RPM, 3 Phase, 415V *
Construction	: Aluminum Casting Body with powder coated. Internal Contact parts SS316 and non-contact parts SS304*
❖ High & Low-level sensor input to be considered in the PLC.	
The plant must include the following:	
<u>Interconnecting pipes</u>	
<ul style="list-style-type: none"> ➤ All internal connecting pipe line between manufacturing vessel, wax vessel, water vessel and transfer storage vessel with manual butterfly valve and with TC joints. ➤ All pipes should be Electro polished and joints TC Connection 	
SS Working Platform :	
Should be made out of SS 304 square pipe frame work with top SS 304 dimple sheet with ladder and railing. S.S railing is provided all three sides of the platform.	
Legs: S.S round pipe legs are provided.	
Complete S.S 304 platform GMP Standard.	

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ANNEXURE - V : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 / 415V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
VFD details (If any)	:	*
Tower lamp	:	*
Starter	:	*
Major Cabling details		
For Main supply (In client's scope)	:	
For Main drive motor	:	*
End connection details	:	MCB or Socket should be with equipment
Earthing requirement	:	Arrangement should be with system
An Isolator Circuit breaker	:	To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cable length with equipment	:	*
<i>Any other detail not mentioned above, also to be included.</i>		
<i>Client will provide & connect the required cable in to vendor's panel. From machine panel to machine and its other accessories to be supplied and connected by vendor at site.</i>		

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



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DESCRIPTION	
(To be specified by the supplier, if any variation)	
Power Panel : (FLP)	
Scope	: Should be made of SS 304 sheet with following: <ul style="list-style-type: none"> • All contractor • Relay • MCB • PLC /Analog inputs • Output card • VFD • Modbus communication • HMI cable from PLC to HMI for automation Pneumatic solenoid valve/ relay card etc.
Remote Panel :	
Scope	: Should be made of SS 304 sheet with following : <ul style="list-style-type: none"> • Touch screen 10" IPC • Emergency & Key switch • Auto/Manual function selection etc..
SCADA SYSTEM: SCADA software with 2000 Tags lab view /Dell make PC with 1 TB hard disk 4 GB RAM with USB port, key pad, mouse etc.	
Controls for manufacturing vessel: Following controls to be consider:	
<ul style="list-style-type: none"> • Total weight of the product • Heating temperature of the product • Mixing time and mixing speed for Anchor • Mixing time and mixing speed for Homogenizer • Re-circulation product time ,CIP re-circulation time • Cooling temperature of product • CIF flush and with conductivity sensor 	

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



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DESCRIPTION (To be specified by the supplier, if any variation)
Miscellaneous :
<ul style="list-style-type: none">❖ Wiring between Panel and the Machine should be in the Scope of Vendor. The exact measurements shall be taken by visiting the site.❖ The Incomer to the Operating Panel shall be provided by HOMCO, however any Cable Trays or SS 304 Conduits required for the same shall be provided by the Vendor.
<ul style="list-style-type: none">❖ Cable routing from Operating Panel to the Machine shall be done as per cGMP i.e. routing through Cable Trays outside Clean Room Areas and SS 304 Conduits inside Clean Room Areas.❖ All the Component Makes should match the Approved Makes list provided.❖ Any deviation from this should be documented and communicated to HOMCO.❖ 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.

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



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ANNEXURE - VI : SAFETY FEATURES

DESCRIPTION
(To be specified by the supplier, if any variation)
Interlock Control:
<ul style="list-style-type: none">➤ If vacuum pump is on hydraulic power pack ,motor should not start➤ If hydraulic cylinder in lift condition, Anchor and Homogenizer motor should not start.➤ If flow of cooling water in mechanical seal of stirrer is not proper , switch off of stirrer through flow switch➤ When steam valves are in operation, cooling valve should not function➤ If air pressure low ,hooter should blow and indicate in PLC➤ If temperature over shoots, hooter should blow and inlet valve should off
The equipment should be provided with motor overload safety relay.
In the event of equipment malfunction or stoppage of utilities, the unit must contain all necessary protection devices to ensure that equipment and product remain in safe condition.
Equipment settings should not get disturbed due to power failure.
Equipment should not restart without human intervention.
Equipment should indicate fault through audio / visual signal with details on Control panel (Failure mode detection)
An easily accessible emergency stop to be provided on main control panel door.
Lubricant should not come in product contact.
Wherever possible, warning symbols should be provided.
Electrical wiring must be concealed

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



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ANNEXURE - VII : UTILITY REQUIREMENT

DESCRIPTION (To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non-Lubricated *
Water	:	*
Chilled Water	:	*
Nitrogen	:	*
Cooling water	:	*
Steam	:	Pure Steam* Raw steam *
Any other	:	*

*** To be specified and confirm by the supplier as per their equipment design with pressure and flow rate and pipe size require..**



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ANNEXURE - VIII : 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 (Details of CIP to be provided)		
Drain points: Vendor should specify the pipe size and location of drain points required as per systems drain requirement *		

ANNEXURE - IX : MECHANICAL DETAILS

DESCRIPTION (To be specified by the supplier, if any variation)		
Dimension (In mm)	:	*
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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ANNEXURE - X : LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS

DESCRIPTION

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

- Optional Items (If any , Vendor should provide the list with rate) *
- Recommended Spares along with list & quantity (Vendors should submit with tender) *
- If any items required but not included in URS , to be mentioned and submitted with unit rate and quantity * (And it can be indicate during pre-bid meeting)

Details of Bought out components to be specified.

Any other ancillary or accessories or optional items not mentioned above also to be quoted.

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

*	:	
*	:	
*	:	
*	:	
*	:	
*	:	
*	:	



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ANNEXURE - XI : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for the Installation, Operation, Maintenance and Cleaning of all the Equipment included in the Ointment Manufacturing Plant shall be provided by vendor and training record will be documented.
- Vendor shall support client in execution of all the Qualification Phases.



*	Cables: Finalex / Polycap
*	Encouer: Kuber / Baumert / Fraba
*	Soft Seal: Hi-Flo / Leak Proof
*	Load Cell: Precis Motion / Mettler Toledo
*	Season: Baumert / Sick / Pfe / Panasonic / Lauze / Radix
*	FRI Unit & Pressure Switch: Festo / Euroswich / SMC
*	VFD: SigmABB / Siemens / Allen Bradley / Delta
*	Pump: Pump / Alfa Laval
*	Control: Provac / PRL / Promovac Engineers
*	Siemens: Brädy / Delta / Exor
*	Siemens: Ioli / Panasonic / Premium
*	Siemens: Brädy / Delta

* To be specified and confirm by the supplier as per their equipment design
 * All the Component Makes should match with the Approved Makes listed above. Any deviation from this should be documented and communicated to HOMCO and Primus Consultant.
 * Any other components, not mentioned above, to be specified by the vendor.



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ANNEXURE - XII : APPROVED MAKES

Stainless Steel Sheet & Pipe: Tata / Jindal	:	*
Motor: Siemens / Bharat Bijlee / Hindustan / Bonfiglioli / Panasonic	:	*
Servo Motor & Drive: Siemens / Allen Bradely / Delta / Panasonic	:	*
PLC: Siemens / Allen Bradely / Delta	:	*
Gear Box: Bonfiglioli / Panasonic / Premium	:	*
HMI: Siemens / Allen Bradely / Delta / Exor	:	*
Vacuum Pump: Indovac / PPI / Promivac Engineers	:	*
Lobe Pump: Unique Pump / Alfa Laval	:	*
VFD: Schnieder / ABB / Siemens / Allen Bradely / Delta	:	*
FRL Unit & Pressure Switch: Festo / Euroswitch / SMC	:	*
Sensor: Baumer / Sick / P&F / Panasonic / Leuze / Radix	:	*
Load Cell: Precia Molen / Mettler Toledo	:	*
Shaft Seal: Hi-Fab / Leak Proof	:	*
Encoder: Kubler / Baumer / Fraba	:	*
Cables: Finolex / Polycab	:	*

❖ **Any other components, not mentioned above, to be specified by the vendor.**

❖ **All the Component Makes should match with the Approved Makes listed above. Any deviation from this should be documented and communicated to HOMCO and Pharma Consultant.**

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



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ANNEXURE - XIII : DOCUMENTATION

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

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	
7	List of instruments	2 sets	
8	Calibration certificates	2 sets	
9	Warranty / Guarantee	2 sets	
10	List of all components with referencing	2 sets	
11	Civil foundation drawings	2 sets	
12	Pre installation requirements	2 sets	
13	Installation requirements	2 sets	
14	Installation manual	2 sets	
15	Technical literature, data sheets and equipment catalogues	2 sets	
16	DQ, IQ, PQ documents.	2 sets	
17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	2 sets	
18	Test Certificates of all material of construction	2 sets	
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	

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ANNEXURE - XIV : TERMS AND CONDITIONS

Delivery Period	:	*
Payment Terms	:	As mentioned in tender.
Packaging and Forwarding	:	By Vendor
Un-loading at site	:	By vendor /Supplier (If required, help for the arrangements of unloading can be done by client) Installation in position by the vendor under the client's supervision
Excise / Taxes /GST	:	*
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	:	By Vendor
Submission of documents and drawings		
Response to URS and submission of quotation	:	Within 1 week
Submission of detail functional design specification and schematic drawings	:	Within a week after order finalization
Submission of FAT / SAT specification	:	2 weeks before FAT
Submission of IQ AND OQ documents	:	With equipment delivery
Drawings / diagrams	:	Within a week after receiving PO
The supplier should notify customer 2 weeks in advance of the beginning of FAT		
Catalogue, Equipment drawing, List of clients and year of establishment to be submitted alongwith quotation.		
Any other terms, not mentioned above, also to be specified.		

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



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ANNEXURE - XV : ABBREVIATION

1.	URS	:	User Requirement Specification.
2.	HOMCO	:	Kerala State Homeopathic Co-operative Pharmacy Ltd.
3.	DQ	:	Design Qualification
4.	IQ	:	Installation Qualification
5.	OQ	:	Operational Qualification
6.	PQ	:	Performance Qualification
7.	SS	:	Stainless Steel
8.	RHS	:	Right Hand Side
9.	MOC	:	Material of Construction
10.	KW	:	Kilo Watt
11.	HP	:	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP	:	Current Goods Manufacturing Practices
15.	O&M	:	Operation and Maintenance
16.	GA	:	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD	:	Head of Department
19.	QA	:	Quality Analysis
20.	MRP	:	Maximum Retail Price
21.	NMT	:	Not more than
22.	VFD	:	Variable frequency drive

Any other details, not mentioned in Annexure I to XIV, to be specified in the quotation/specification by the vendor.



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