



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.

(sponsored by government of Kerala & aided by govt. of India)

Office:Pathirappally
Alappuzha, India
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Phone : 477 2258012
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Fax : 0477 2258012

Website : www.homcokerala.com

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Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	<i>Tablet Section (Second Floor)</i>
Equipment and Code No.	:	Integrated Tablet Bulk Packing Line
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Integrated Bulk Packing Line for tablets at M/s. HOMCO-Kerala
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	1 set .



CONSULTANT : M/S. KNACK TECHNOCRATS

42, AVINASH, SEVEN BUNGALOWS, JAY PRAKASH ROAD, ANDHERI (W), MUMBAI - 400 053
TEL. NO. : 022-2636 1629, Email : infoknack@gmail.com



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BULK PACKING LINE SPECIFICATION FOR MACHINE

	<i>Description</i>		<i>Page No.</i>
	<i>EQUIPMENT LIST</i>	:	(1) TURN TABLE
	:	(2) VERTICAL AIRJET CLEANER	10-17
	:	(A) FIXED CONVEYOR WITH BOTTLE STOPPER	
	:	(3) MULTI-HEAD WEIGHER	18-25
	:	(4) CAPPING MACHINE	26-33
	:	(5) INDUCTION SEALING MACHINE	34-41
	:	(6) LABELLING MACHINE	42-50
	:	(A) INTERMEDIATE TURN TABLE	
	:	(7) PACKING CONVEYOR	51-57



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(1) TURN TABLE

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	Empty container in-feed Turn Table (TT)
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model container in feed Turn Table for Bulk Packing Line at M/s. HOMCO-Kerala
Quantity	:	1 No.



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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Equipment	:	<i>Empty container In-Feed Turn Table (TT) with Loading Platform and all required aids accessories</i>
Scope	:	Supply, Installation, Commissioning and Validation of empty container in-feed Turn Table to Bulk Packing Line including loading platform and connecting arrangement to in feed of air jet cleaning machines along with all interconnecting arrangement, electrical cables, support and accessories required for successful working of this equipment at site of M/s. Homco -Kerala
Quantity	:	1 Nos.
Model	:	GMP *
Diameter of Turn table	:	600 mm dia with loading platform *
Container feeding	:	Manual feeding on Loading Platform for empty containers*
Container guides	:	Easy adjustable container guides for different size of container. *
Container details	:	Diameter : 35 mm to 85 mm * Height : 50 mm to 175 mm *
Container guide	:	Adjustable container guide for different type of container *

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



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ANNEXURE - II : OPERATIONAL FEATURES

DESCRIPTION

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

- Loading Platform should be along with the turntable for container feeding. *
- Rotating disc to be included to carry the container in sequence. *
- Diverter arm for diverting the containers to the extreme ends of the rotating table
- The turntable at the exit to be connected to the Air jet cleaner downstream machine using a conveyor.
- To handle various types of round bottles. *
- Automatic swing system to be incorporated to avoid jamming of containers. *
- Guides to be provided for smooth flow of containers.
- Un-interrupted Container feeding to the counting line, when the counting line is in operation we need continuous feeding of container and for the same we need to accumulate the buffer for feeding the container in order to avoid starvation, the containers to be in stable motion. *
- VFD should ensure the speed of the rotating disc to be increased or decreased as per the required output of the container and the dimensions of the containers. *
- Complete assembly should be enclosed in the SS frame and covers and all contact parts are of SS 304, rigid supports should be provided for the guide mounting brackets and smooth flow of containers.

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



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ANNEXURE - III : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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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- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to 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 - IV : APPROVED MAKES

Motor: Siemens / Bharat Bijlee / Megha Rototech / Panasonic	:	*
Gear Box: Bonfiglioli / Panasonic / Nidec Shimpo Corporation	:	*
VFD: Schnieder / ABB / Siemens / Delta / Allen Bradley	:	*
Cables: Finolex / Polycab	:	*
<p>❖ <i>Any other components, not mentioned above, to be specified by the vendor.</i></p> <p>❖ <i>All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.</i></p>		

ANNEXURE - VII : 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.		

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



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ANNEXURE - VIII : UTILITY REQUIREMENT

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non Lubricated *
Power	:	*
Any other	:	*

ANNEXURE - IX : PHYSICAL 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.)	:	*

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



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(2) VERTICAL AIRJET CLEANER

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	Empty container cleaning by Air-jet Cleaner System With Worm Arrangement and Air Ionizer Unit FIXED CONVEYOR WITH BOTTLE STOPPER
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Air-jet Cleaner System with Worm Arrangement and Air Ionizer Unit for Bulk Packing Line at M/s. HOMCO - Kerala
Quantity	:	1 No.



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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION (To be specified by the supplier, if any variation)		
Equipment	:	Empty container cleaning by Air-jet Cleaner System with Worm Arrangement and Air Ionizer Unit
Scope	:	Supply, Installation, Commissioning and Validation of empty container cleaning by Air-Jet Cleaner System with worm gear arrangement and air ionizer unit including loading conveyor and connecting arrangement to in feed of cleaned bottles to weight machine along with all interconnecting arrangement , electrical cables, support and accessories required for successful working of this equipment at site of M/s. Homco -Kerala
Quantity	:	1 Nos
Type	:	GMP model- online
Model	:	*
Capacity	:	15 to 35 container /minute
Container details	:	Diameter : 35 mm to 85 mm * Height : 50 mm to 175 mm *
Conveyor speed controller	:	Potentiometer to control the Speed of the motor.
Sensors for Containers presence	:	Capacity sensors for checking the Presence of the container on the Conveyor.
Ionizer unit for generating Ionized air to help remove static charges	:	In built on the machine
Vacuum suction on the machine	:	Vacuum generating unit should be with machine.
Pneumatic cylinders for Cleaning unit movements from top to Bottom.	:	Adjustable height of the Cleaning unit based on the height of the containers.
Bottle holding and stopper arrangements	:	Worm feeder assembly should be provided.

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



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ANNEXURE – II : OPERATIONAL FEATURES

DESCRIPTION

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

Operation sequence	<p>: Container to be subjected for Cleaning should fed onto the in feed conveyor of the Air jet unit through the turn table. Each individual container should carried by the conveyor using slat chain to the Cleaning station one after the other in a stream line.</p> <p>The Inlet of the compressed air should be subjected to the ionizer unit which should provide inside the machine and the output should be ionized air. This Ionized air should eliminate any static charges present inside the container and particles should loosen up and sucked by the vacuum pressure alternatively after the air blowing operation.</p>
<ul style="list-style-type: none"> ➤ In built ionizer unit for generating ionized air to help remove static charges ➤ Vacuum suction to be provided on the machine ➤ Pneumatic cylinders for cleaning unit movements from top to bottom - Adjustable height of the Cleaning unit based on the height of the containers ➤ Bottle holding and stopper arrangements – Worm feeder assembly to be provided. Locking pin to be provided on the mast. ➤ Interlock Sensors to be provided. ➤ Capacity sensor for checking the presence of the container on the conveyor. ➤ Adjustable height using the pneumatic cylinder of the cleaning unit based on the height of the container. 	

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



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ANNEXURE - III : PROCESS CONTROL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Speed control	Conveyor speed should be controlled by the main machine speed controls system using the Potentiometer and worm feeding system to avoid Bottle jamming during the Cleaning operation.
Process control	
<ul style="list-style-type: none"> The cleaning unit moves down on receipt of the signal from the sensor and seals the mouth of the container. (The mouth sealing unit is the adaptor which is a change part based on the different mouth size of container may be provided). Once the container is cleaned the next container should subjected to similar operation of cleaning. Where the unit should lifted up by pneumatically controlled system and the bottle holding system should released for the next container to be carried into the cleaning station. The complete system should programmed in sequence which includes the bottle holding, the cleaning unit ascending and descending operation, ionized air blowing and vacuum suction. The machine speed should synchronize based on the output required and the speed of the downstream machine. Alternate interlock sensors should be provided to confirm the smooth flow and avoid any bottle jamming due to back pressure or downstream machine stoppages. 	
Main Power Panel	: Consisting of up/down contactor, backup MCB, overload relays, controls MCB and up/down solenoid cools, fuses, power pack mounted on the mast.
Operating Panel	: Consisting of push buttons for up/down, main switch for on/off and RYB indication.

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ANNEXURE - IV : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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>		

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- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to Equipment. *
- ❖ Complete covering of Electrical Cables and Other Connections.

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ANNEXURE - VI : APPROVED MAKES

Motor: Siemens / Bonfiglioli / Megha Rototech / Panasonic	:	*
Gear Box: Bonfiglioli / Panasonic / Nidec Shimpo Corporation	:	*
VFD: Schneider / ABB / Siemens / Allen Bradley / Delta	:	*
HMI : Exor / Delta / Beckhoff	:	*
PLC : Allen Bradley / Delta / Beckhoff	:	*
Vacuum Pump : SMC / Norgren / Festo / Crouzet	:	*
Vacuum Filter : SMC / Norgren / Festo / Crouzet	:	*
Static/Ionizer Unit : Eltech Engineers / Keyence	:	*
Sensors: Sick / P&F / Panasonic / Leuze	:	*
Pressure Switch & Regulator : Festo / Euroswitch / SMC	:	*
Cables: Finolex / Polycab	:	*
❖ Any other components, not mentioned above, to be specified by the vendor.		
❖ All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.		



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

ANNEXURE - VIII : UTILITY REQUIREMENT

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Vacuum	: *
Compressed Air	: Ordinary * Non Lubricated *
Power	: *
Any other	: *

ANNEXURE - IX : 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.	

ANNEXURE - X : PHYSICAL 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)	: *



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Gross Weight (In Kgs.)

:

*

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

(3) MULTI-HEAD WEIGHER

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	Automatic Weighing and Filling Machine Fixed Conveyer with Bottle Stopper between Air
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Automatic Weighing and Filling Machine for Bulk Packing Line at M/s. HOMCO -Kerala
Quantity	:	1 No each.



CONSULTANT : M/S. KNACK TECHNOCRATS

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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Equipment	: Automatic weighing and filling machine for bulk filling
Scope	: Supply, Installation, Commissioning and Validation of cGMP model Automatic Weighing and Filling Machine for Bulk Packing Line with all required inter connecting arrangement to connect this machine from air jet cleaning at entry and capping machine at exit side and any all optional item which is required to run the machine along with accessories, cables etc. at M/s. HOMCO – Kerala
Quantity	: 1 Nos
Machine	: Automatic weighing and filling for bulk packing line
Model	: GMP *
Maximum Weighing Speed	: 60 to 75 weigh per minute*
Weighing Range	: From 25 gm to 500gm*
Maximum Product Length	: 60 mm*
Volume	: 1000cc*
Number of Weigh Heads	: 10*
Feeding Output	*



CONSULTANT : M/S. KNACK TECHNOCRATS

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

ANNEXURE - II : OPERATIONAL FEATURES

DESCRIPTION

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

- Top pan : Vibratory type *
- Product level sensor : Load cell type of 30 kgs capacity *
- Linear pan – V shape type *
- Feed and weigh bucket : Double door type (with spring) 500 cc*
- Up to 300 pre-set programs can be memorized*
- Automatic production control function. *
- Feedback control between check weighed and multi head weighed. *
- Remote control for integration in operating networks*

Feeding output

a.	6 mm Dia,100 mg/Tablet	Per bottle 25 gm.	35 BPM	1 No. of Dumps
b.	6 mm Dia,100 mg/Tablet	Per bottle 100 gm.	30 BPM	1 -----//-----*
c.	6 mm Dia,100 mg/Tablet	Per bottle 500 gm.	15 BPM	5 -----//-----*
d.	9 mm Dia,300 mg/Tablet	Per bottle 25 gm.	35 BPM	1 -----//-----*
e.	9 mm Dia,300 mg/Tablet	Per bottle 100 gm.	30 BPM	1 -----//-----*
f.	9 mm Dia,300 mg/Tablet	Per bottle 500 gm.	15 BPM	5 -----//-----*



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- On the conveyor with feed height of 900mm +/- 25mm to handle maximum container height of 175 mm.

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

ANNEXURE - III : PROCESS CONTROL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Operating Panel	: 10,4" Colour Touch Screen * Up to 300 pre-set programs can be memorized*
Speed Variation	: VFD*
Product mixing	: 2 products mixing is available*
USB	: USB memory port for data acquisition and program update *
Remote control	: Remote control for integration in operating networks*
Feed back control	: Feedback control between check weighed and multi head weighed*
Production control	: Automatic production control function. *

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



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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 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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	:	*



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Any other detail not mentioned above, also to be included.

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.

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

- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to 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 : APPROVED MAKES

Motor: Siemens / Bonfiglioli / Megha Rototech / Oriental Motor	:	*
Load Cells: IPA / Mettler Toledo / Yamato	:	*
VFD: Schnieder / ABB / Siemens	:	*
Cables: Finolex / Polycab/RK Kabels	:	*
<p>❖ Any other components, not mentioned above, to be specified by the vendor.</p> <p>❖ All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.</p>		

ANNEXURE - VIII : UTILITY REQUIREMENT

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non Lubricated *



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Power : *

Any other : *

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

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.

ANNEXURE - IX : PHYSICAL 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) : *



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Gross Weight (In Kgs.)

:

*

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



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(4) CAPPING MACHINE

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	Automatic Single Head Screw Type Capping Machine for Bulk Packing Line
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Automatic Single Head Screw Type Capping Machine for Bulk Packing Line –at M/s. HOMCO–Kerala
Quantity	:	1 No.



CONSULTANT : M/S. KNACK TECHNOCRATS

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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Equipment	: Automatic Single Head Screw Type Capping Machine for bulk packing line
Scope	: Supply, Installation, Commissioning and Validation of cGMP model Automatic Single Head Screw Type Capping Machine – with interconnection using fixed conveyor with bottle stopper between weighing and induction sealing machine with optional and necessary item which is required to run the machine along with accessories, cables etc. at M/s. Homco –Kerala
Quantity	: 1 Nos
Machine	: Automatic Single Head Screw Type Capping Machine
Type	: GMP *
No. of capping head	: 1 no. *
Output (Bottles/min)	: 40 to 45 bottles per minutes *
Caps Feeding	: Vibratory Bowl Feeder*
Bottle height	: 50 ~ 175 mm*
Bottle diameter	: 35 ~ 85 mm*
Cap diameter	: Outer diameter : 30 ~ 85 mm* Height : 10 ~ 18 mm*



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*** 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)	
Machine Motion	: Rotary Motion – Indexer Based *
Capping Unit	: Magnetic Screw Capping Head with Mechanical Torque Adjustment*
Suitable For Products	: Glass Bottles Ranging from 20 ml to 500 ml*
Application	: To Tight & Seal the Caps on Bottles*
Production Efficiency	: 95%*
Rejection Ratio During Production	: 1%*
Conveyor Length	: 7 feet *
Conveyor Height	: 950 mm (±25mm) *

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



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ANNEXURE - II : OPERATIONAL FEATURES

DESCRIPTION

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

The equipment should consist of:

- Level sensor to ensure cap is properly positioned*
- Sensor to indicate VAD presence*
- Inbuilt torque limiter for cap tightening *
- Pneumatic based bottle gripping. *
- Pneumatic based cap pressing / hammering*

ANNEXURE - III : PROCESS CONTROL FEATURES

DESCRIPTION

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

Main Power Panel	:	Should consisting of up/down contactor, backup MCB, overload relays, controls MCB and up/down solenoid cools, fuses, power pack mounted on the mast.
Operating Panel	:	Consisting of push buttons for up/down, main switch for on/off and RYB indication.
Variation in speed of the machine	:	By VFD
Controls	:	By Programmable Logic Controller PLC *

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



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ANNEXURE - IV : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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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- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to 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 - V : APPROVED MAKES

Motor: Siemens / Panasonic / Bonfiglioli / Allen Bradely / Delta / Beckhoff	:	*
Gear Box: Bonfiglioli / Nidec Shimpo Corporation / Panasonic	:	*
Drive : Delta / Beckhoff / Bholanath / Allen Bradely	:	*
VFD : Delta / Beckhoff / Allen Bradely	:	*
PLC: Delta / Beckhoff / Allen Bradely	:	*
HMI: Exor / Delta / Beckhoff	:	*
Sensor: Sick / P&F / Panasonic / Teckmans / Leuze	:	*
FRL Unit & Pressure Switch: Festo / Euroswitch / SMC	:	*
Cables: Finolex / Polycab/R K Kabels	:	*
<p>❖ <i>Any other components, not mentioned above, to be specified by the vendor.</i></p> <p>❖ <i>All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.</i></p>		

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



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ANNEXURE - VI : 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.		

ANNEXURE - VII : UTILITY REQUIREMENT

DESCRIPTION (To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non Lubricated *
Power	:	*
Any other	:	*

ANNEXURE - VIII : PHYSICAL 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)	:	*



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Gross Weight (In Kgs.)

:

*

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



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(5) INDUCTION SEALING MACHINE

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	On line Induction Sealing Machine
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Online Induction Sealing Machine for Bulk Packing Line at M/s. HOMCO-Kerala
Quantity	:	1 No.



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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Equipment	: On line Induction Sealing Machine
Scope	: Supply, Installation, Commissioning and Validation of empty Online Induction Sealing Machine including loading conveyor from capping machine and connecting arrangement to labeling machine with all interconnecting arrangement , electrical cables, support and accessories required for successful working of this equipment at site of M/s. Homco -Kerala
Quantity	: 1 Nos.
Machine	: On line Induction Sealing Machine
Model	: GMP *
Maximum Line Speed	: 60 feet/min*
Air supply	: 3 – 5 bar pressure*
Bottle Diameter	: Min.: 35 mm* : Max.: 85 mm*
Height	: Min.: 50 mm* : Max.: 175 mm*
Bottle Shape	: Round *
Feed Height of Conveyor	: 900 mm *
Cap Dimension	: Min.: 30 mm* : Max.: 85 mm*
Cap Height	: Min.: 10 mm* : Max.: 18 mm*
Cap Type	: Screw type / CRC Type*

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



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ANNEXURE - II : OPERATIONAL FEATURES

DESCRIPTION

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

- Compact all-in-one design: Easily Movable: Easy for line relocation. *
 - Single Body, "on conveyor" mounting system *
 - Front panel with easy to use membrane switches *
 - Coil movement Standard: 300 mm *
-
- Conveyor Stop system – The conveyor to stop in predefined condition of sealing off. *
 - Protection & Alarms
 - Over voltage (Inbuilt Circuit – No Alarm) *
 - Over Current (Inbuilt Circuit – No Alarm) *
 - Spike and Surge (Inbuilt EMI filter to be provided – No Alarm) *
 - Over Temperature cut-off – Alarm to be generated*
 - No effect of voltage fluctuation (Inbuilt MOV to be provided) *

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



CONSULTANT : M/S. KNACK TECHNOCRATS

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ANNEXURE - III : PROCESS CONTROL FEATURES

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Process	:	Online model features wide output power range, high efficiency and microprocessor controls. *
Voltage Fluctuation	:	No effect of voltage fluctuation (Inbuilt MOV to be provided) *
Power	:	2.0 KW *
Mains Supply	:	230 VAC*
Single Phase	:	50 Hz*
Standby Power	:	0.3 KW*

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



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ANNEXURE - IV : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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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- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to 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 - V : APPROVED MAKES

Motor: Siemens / Panasonic / Bonfiglioli	:	*
Gear Box: Bonfiglioli / Nidec Shimpo Corporation / Panasonic	:	*
VFD: Schnieder / ABB / Siemens / Allen Bradley / Delta	:	*
FRL Unit & Pressure Switch: Festo / Euroswitch / SMC	:	*
Sensor: Sick / P&F / Panasonic / Teckmans / Leuze	:	*
Cables: Finolex / Polycab/RK Kabels	:	*
<p>❖ Any other components, not mentioned above, to be specified by the vendor.</p> <p>❖ All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.</p>		

ANNEXURE - VI : UTILITY REQUIREMENT

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non Lubricated *
Power	:	*
Any other	:	*

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



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ANNEXURE - VII : 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.

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

ANNEXURE - VIII : PHYSICAL 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.)

:

*

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



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(6) LABELLING MACHINE

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	Automatic Sticker Labeling Machine with Thermal Inkjet Printer
		INTERMEDIATE TURN TABLE
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Automatic Sticker Labeling Machine with Thermal Inkjet Printer for Bulk Packing Line at M/s. Homco –Kerala
Quantity	:	1No.



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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Equipment	:	Automatic Sticker Labeling Machine with Thermal Inkjet Printer
Scope	:	Supply, Installation, Commissioning and Validation of cGMP model Automatic STICKER LABELLING MACHINE – with interconnection between Induction sealing machine and Packing conveyor with optional and necessary item which is required to run the machine along with accessories, cables etc. at M/s. Homco –Kerala
Quantity	:	1 Nos.
Machine	:	Automatic Sticker Labeling Machine
Model	:	GMP *
Capacity/Speed of Labeling	:	60-70 bottles per minute *
Type of Labels	:	Paper*
Label Spacing	:	3 mm*
Release Paper	:	Glassine Paper*
Roll Diameter	:	Max. 280 mm OD and ID 76mm*
Label Height	:	Max: 150mm*
Dancing roller with arm	:	Double roller to maintain for free flow of paper path *
Label Height Change over setting	:	Labeler suitable for label roll from 25 mm to 150 mm in height*
Conveyor	:	2300 mm*



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Labeling head height
adjustment

: 150mm adjustment each on both axis*

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

ANNEXURE - II : OPERATIONAL FEATURES

DESCRIPTION

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

- Automatic label length detection *
- PLC based system*
- 30 – Programs storing capacity*
- HMI-7" Touch screen. *
- Product Counter, Product speed display*
- Label sensor with teaching*
- No Bottle – No label*
- Sponge roller for labelling pressing*
- Label Roll end alarm system*
- System Refresh Mode. *
- Label dispensing speed adjustment up to 25mtr/min. *
- Label Pre-ejection adjustable. *
- Missing label recovery function (up to 50mm length) *

*** 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)

- Product spacer with belt or chain type with independent motorized system for product spacing. *
- Aluminium Labeller slide with hinges type with 3 axis adjustment will have scales for all slides. *
- Labelling head with Stepper drive and motor- m/minute*
- Wrap-around with stepper motor for 25m/minute*
- Labeler slides with 3 axis adjustment*

Thermal inkjet printer

• Max. print height zone	12.7mm *
• Print feasibility	2D code & Alphanumeric character *
• Operator interface	Full color LCD, touch panel clarity interface *
• Diagnostics	Standard on-board diagnostics *
• External data communication	RS232, Ethernet, Binary and ASCII COMMS Protocols and Windows Drivers. *

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



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ANNEXURE - III : PROCESS CONTROL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Main Power Panel	: Consisting of up/down contactor, backup MCB, overload relays, controls MCB and up/down solenoid cools, fuses, power pack mounted on the mast.
Operating Panel	: Consisting of push buttons for up/down, main switch for on/off and RYB indication.
Speed Variation	: All drives synchronized through encoder and operated through PLC*
Control Panel	: Inbuilt in Box Type Base Frame*
Sensors for	: Product jamming/label presence/rejection*
Inkjet Printer	: Salient Features Easy programmability Counter Alarm functions Barcode feature (optional) *
Ink Type (solvent-based / water-based)	: *

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



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ANNEXURE - IV : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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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- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to Equipment. *
- ❖ Complete covering of Electrical Cables and Other Connections.

ANNEXURE - V : UTILITY REQUIREMENT

DESCRIPTION (To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non Lubricated *
Power	:	*
Any other	:	*

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



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ANNEXURE - VI : APPROVED MAKES

Motor: Siemens / Bharat Bijlee / Megha Rototech / Bonfiglioli / Panasonic	:	*
Servo Motor & Drive: Siemens / Allen Bradely / Delta / Panasonic	:	*
PLC: Siemens / Allen Bradely / Delta	:	*
Gear Box: Bonfiglioli / Panasonic	:	*
HMI: Siemens / Allen Bradely / Delta / Exor	:	*
VFD: Schnieder / ABB / Siemens / Allen Bradely / Delta	:	*
FRL Unit & Pressure Switch: Festo / Euroswitch / SMC	:	*
Sensor: Sick / P&F / Panasonic / Leuze	:	*
Encoder: Kubler / Baumer / Fraba	:	*
Cables: Finolex / Polycab/RK Kabels	:	*
<p>❖ <i>Any other components, not mentioned above, to be specified by the vendor.</i></p> <p>❖ <i>All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.</i></p>		

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



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ANNEXURE - VII : 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.

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

ANNEXURE - VIII : PHYSICAL 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.)

:

*

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



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(7) PACKING CONVEYOR

Department	:	<i>Tablet (Bulk Packing line -Second Floor)</i>
Equipment and Code No.	:	Packing Conveyor after labelling machine
Name of work	:	Supply, Installation, Commissioning & Validation of cGMP model Packing Conveyor at the end of labelling machine for Bulk Packing Line at M/s. Homco –Kerala
Quantity	:	1 No.



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ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Equipment	: Packing Conveyor after labelling machine
Scope	: Supply, Installation, Commissioning and Validation of cGMP model Packing Conveyor at the end of labelling machine for bulk packing line with optional and necessary item which is required to run the machine along with accessories, cables etc. at M/s. Homco - Kerala
Quantity	: 1 Nos.
Machine	: Packing Conveyor
Model	: GMP *
Type	: Online *
Speed of the Conveyor	: *
Length	: 2000 mm*
Conveyor Belt	: PU (food grade) *
Side plate	: SS 304*
Legs	: Leveling legs*

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



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ANNEXURE - II : OPERATIONAL FEATURES

DESCRIPTION

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

- Safety railings *
- Height of Conveyor to be adjustable *
- Conveyor should consist of safety railings for guiding the bottles during their travel. The conveyor should basically used for passing labelling container to next process. The conveyor should mainly use packing the final products. The packing conveyor consists of motor, conveyor belt, levelling legs & side plate. The conveyor belt should be made up of polyurethane (PU). The height of the conveyor can be adjusted by adjusting the levelling nut on the leg. The conveyor should be run by a motor mounted below the structure.

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



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ANNEXURE - III : ELECTRICAL DETAILS

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Standard Operating Frequency	:	50 Hz
Standard Operating Voltage	:	230 /415 V*
Total power consumption	:	*
Motor Details with rpm	:	*
Gear Box Details (If any)	:	*
PLC and HMI details	:	*
Control panel details	:	*
VFD details (If any)	:	*
Tower lamp details (If any)	:	*
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 considered 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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- ❖ Wiring between Panel and the Machine is 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.
- ❖ 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 should be provided to 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 - V : APPROVED MAKES

Motors: Siemens / Bharat Bijlee / Megha Rototech / Bonfiglioli	:	*
Gear Box: Bonfiglioli / Panasonic	:	*
VFD: Schnieder / ABB / Siemens / Delta / Allen Bradley	:	*
Cables: Finolex / Polycab/RK Kabels	:	*
❖ Any other components, not mentioned above, to be specified by the vendor.		
❖ All the Component Makes mentioned above should match the Approved Makes list provided. Any deviation from this should be documented and communicated to Pharma Consultant & HOMCO.		

ANNEXURE - VI : UTILITY REQUIREMENT

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Vacuum	:	*
Compressed Air	:	Ordinary * Non Lubricated *
Power	:	*
Any other	:	*

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



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ANNEXURE - VII : 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.		

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

ANNEXURE - VIII : PHYSICAL 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.)	:	*

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



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GENERAL TERMS

ANNEXURE - I : cGMP FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
MOC	: Contact Parts : SS 316 * : Non-Contact Parts : SS 304 or any MS parts : should be cladded by SS 304 * : Gasket / Seal / 'O' ring : Food grade*
Working Area Environment	: Temperature : NMT 24±2°C : Relative Humidity : NMT 65±5 %
Finish	: Internal : Mirror Finish *
	: External : Matt Finish*
The equipment should be of smooth finish without any sharp edges and crevices	

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



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ANNEXURE - II : SAFETY FEATURES

DESCRIPTION
(To be specified by the supplier, if any variation)
Safety of system operation is of utmost importance.
All guards to be with interlock switches *
Equipment to be provided with overload safety relay*
In the event of 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 and should not Re-start without human intervention.
Equipment should indicate fault through audio / visual signal with details on Control panel/PLC (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.

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



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ANNEXURE - III : 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**

ANNEXURE - IV : TRAINING REQUIREMENT

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



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ANNEXURE - V : 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 , format	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 - VI : 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 DQ, IQ, OQ, PQ documents	:	With equipment delivery
Final drawings / diagrams	:	Within 8 day of 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.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

*** To be specified by the supplier**



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ANNEXURE - VII : 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 the Annexure of all the equipments listed above, to be specified in the quotation/specification by the vendor.



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