



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

Phone : 477 2258012
:477 2258665
Fax : 0477 2258012

Website : www.homcokerala.com

Email : homcokerala@gmail.com

Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	QCL LAB –First Floor
Equipment and Code No.	:	Magnetic Stirrer (With Hot Plate)
Name of work	:	Supply, Installation, Commissioning & Validation of cGLP model Magnetic Stirrer with hot plate at M/s. HOMCO –Kerala
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	1 No.



CONSULTANT : M/S. KNACK TECHNOCRATS

42, AVINASH, 7 BUNGALOWS, J.P. ROAD, ANDHERI (W), MUMBAI - 400 053
TEL. NO. : 022-2636 1629, Email : infoknack@gmail.com



(I. Anwar)



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MAGNETIC STIRRER (WITH HOT PLATE)

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Scope	:	Supply, Installation, Commissioning & Validation of cGLP model Magnetic Stirrer (With Hot Plate) along with connecting accessories, cables etc. at M/s. HOMCO -Kerala
Model	:	*
Capacity	:	0.5 to 1 Liter. *
Size	:	140 x 145 x 120 mm ht. *
Speed	:	1000 RPM. *

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



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ANNEXURE - II, III : CGMP & OPERATIONAL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
MOC	: SS 316 / SS 304 *
Finish	: Mirror Finish*
The machine should consist of:	
<ul style="list-style-type: none"> ➤ Unit should uniformly homogenize, mix and heat watery liquid. * ➤ Should provide with soft start and restart facility. * ➤ Unit should consist of electronic heat regulator. * ➤ Should provide with SS 316 top hot plate and Teflon magnetic bit. * 	

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



J. Anjan
(J. Anjan)



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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 / 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 confirmed by the supplier as per their equipment design



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DESCRIPTION

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

Miscellaneous:

- ❖ 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. *
- ❖ 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 confirmed by the supplier as per their equipment design**



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ANNEXURE - V : SAFETY FEATURES

DESCRIPTION
(To be specified by the supplier, if any variation)
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 stops 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 confirmed by the supplier as per their equipment design



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ANNEXURE - VI : UTILITY REQUIREMENT

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

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



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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. *		
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 confirmed by the supplier as per their equipment design**



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ANNEXURE - VIII : 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 confirmed by the supplier as per their equipment design**



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**ANNEXURE - IX : 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) *
- If any items required but not included in URS, to be mentioned and submitted with unit rate and quantity * (And it can be indicated 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 confirmed by the supplier as per their equipment design**



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ANNEXURE - X : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for the Installation, commission and validation of this lab item should 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 - XI : APPROVED MAKES

Stainless Steel Sheet & Pipe: Tata / Jindal	:	*
PLC: Siemens / Allen Bradely / Delta	:	*
HMI: Siemens / Allen Bradely / Delta / Exor	:	*
Cables: Finolex / Polycab	:	*
<p>❖ Any other components, not mentioned above, to be specified by the vendor.</p> <p>❖ 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.</p>		

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



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ANNEXURE - XII : 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 - XIII : 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 along with quotation.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

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



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ANNEXURE - XIV : 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 Good 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
23.	FAT	:	Factory Acceptance Test
24.	SAT	:	Site Acceptance Test

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



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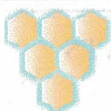
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Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	
Equipment and Code No.	:	Digital Weigh Balance (Platform Type) (For production and stores)
Name of work	:	Supply, Installation, Commissioning of cGMP Digital Weigh Balance (Platform Type) at M/s. HOMCO -Kerala -
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	As mentioned in details



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Handwritten signature and name:
A. I. Anson



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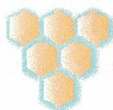
Email : homcokerala@gmail.com

DIGITAL WEIGH BALANCE (PLATFORM TYPE)

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Scope	: Supply, Installation and Commissioning of cGMP model Digital Weigh Balance-Platform type along with connecting accessories, cables etc. at M/s. HOMCO -Kerala at
Machine	: Digital Weigh Balance (Platform type)
Model	: *
Capacity (Kg)	: 1) 60 Kg. - 1 No.* 2) 100 Kg. - 2 No.* 3) 300 Kg. - 1 No. *
Accuracy (g)	: 1) 5 gm * 2) 10 gm * 3) 20 gm *
Platform Size (mm)	: 1) 400 X 400 mm * 2) 500 X 500 mm * 3) 600 X 600 mm *
Class Type	: Class-III *
Speed of Measurement	: Approximate 1 to 2 sec. *
Working Temperature Range	: Room temperature to 45°C *
Relative Humidity	: Approximate 65% to 75% *
Minimum Back Time	: Approximate 25 Hrs. *

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



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T. Ansgri



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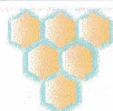
ANNEXURE - II, III : CGMP FEATURES & OPERATIONAL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
MOC	Stainless Steel *
Finish	:
<p>Unit should consist of following features:</p> <ul style="list-style-type: none"> ➤ Should have bright large 0.8" led display. * ➤ Should have PCS counting facility. * ➤ Should have percent weighing facility. * ➤ Should have accumulation facility. * ➤ Should be provided with 4-point overload protection. * ➤ Keypad should be water resistant. * ➤ Swivel head should be able to tilt 90° & 360°. ➤ Overload alarm should be provided for safety. * 	

*** 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 / 415V*
Rating watts	:	*
Total power consumption	:	*
PLC and HMI details	:	*
VFD details (If any)	:	*
Tower lamp (If required)	:	*
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)

Miscellaneous:

- ❖ 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. *
- ❖ 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**



(I. Ansari)



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ANNEXURE - V : SAFETY FEATURES

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



(I. Ansari)



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ANNEXURE - VI : UTILITY REQUIREMENT

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

*** To be specified and confirm by the supplier as per their equipment's design requirement with pressure and flow rate and pipe / nozzle size required.**



(I. Ansari)



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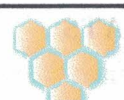
ANNEXURE - VII : CLEANING TECHNIQUE

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.	
Drain points: Vendor should specify the pipe size and location of drain points if any required as per their design requirement *	

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



 (I. Ansari)



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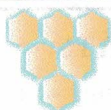
ANNEXURE - VIII : MECHANICAL DETAILS

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**



(I. Ansari)



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ANNEXURE - IX : 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) *
- 1) Weight printing facility including weightment details for a particular period. *
- 2) Dust proof cover. *
- 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 indicated during pre-bid meeting)

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 - X : TRAINING REQUIREMENT

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



(I, Ansari)



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ANNEXURE - XII : 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 - XIII : 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 along with 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 - XIV : 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 Good 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
23.	FAT	:	Factory Acceptance Test
24.	SAT	:	Site Acceptance Test

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



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Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	
Contact Person	:	
Address	:	
Contact Details	:	
Department	:	QCL- First Floor
Equipment and Code No.	:	Quality Control Laboratory Equipment
Name of work	:	Supply, Installation, Commissioning & Validation of cGLP model Equipment at M/s. Homco -Kerala on second floor.
Ref. No.	:	
Date	:	
Enclosures	:	
Quantity	:	As per equipment



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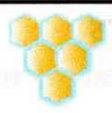
QCL LABORATORY EQUIPMENT

EQUIPMENT LIST

<u>SR. NO.</u>	<u>DESCRIPTION</u>	<u>CAPACITY</u>	<u>REMARK</u>
1.0	SILICA CRUCIBLE WITH LID	25 ML	
2.0	DIGITAL STOPWATCH	25Nos.	
3.0	HYGROMETER TEMPERATURE RANGE HUMIDITY RANGE	50 TO 70°C 15 TO 95%	
4.0	WET & DRY THERMOMETER	8 TO 50° c	



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SILICA CRUCIBLE WITH LID

ANNEXURE - I : BASIC DETAILS OF THE MACHINE-SR.-1.0

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Machine / Equipment	: Silica Crucible with Lid
Scope	: Supply, Installation, Commissioning and Validation of Silica Crucible with Lid at site of M/s. Homco -Kerala
Model	: *
Density	: 2.2 g/cm ³ *
Hardness	: 6 to 7 Mohs *
Poisson's Ratio	: 0 to 17 *
Young's Modulus	: 7.4 x 10 ⁵ Kg/cm ² *
Tensile Strength	: 600 to 700 Kg/cm ² *
Softening Temperature	: 1700 ° C *
Annealing Temperature	: 1150 ° C *
Working Temperature	: 1050 ° C (Continuous) *
Operating Temperature	: 1350 ° C (Intermittent) *
Qty. required	: 25 Nos.

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



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DIGITAL STOPWATCH

ANNEXURE - I : BASIC DETAILS OF THE MACHINE SR.No.2.0

DESCRIPTION		
(To be specified by the supplier, if any variation)		
Machine / Equipment	:	Digital timer
Scope	:	Supply, Installation, Commissioning and Validation of Digital Stopwatch at site of M/s. Homco -Kerala with Calibration Certificate.
Measuring Range	:	99 hrs., 59 min., 59 sec. *
Resolution	:	1 sec. (Count up & down) *
Functions	:	Last memory function *
Sound	:	Loud sound *
Power	:	2 x 1.5V AAA Battery *
Display	:	* :

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



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DIGITAL THERMO HYGROMETER

ANNEXURE - I : BASIC DETAILS OF THE MACHINE SR.No.3.0

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Machine / Equipment	: Digital Thermo hygrometer
Scope	: Supply, Installation, Commissioning and Validation of Digital Thermo Hygrometer at site of M/s. Homco - Kerala with Calibration Certificate
Measuring Range	: 0 to 50° C (32 to 122° F) *
Resolution	: 0.1° C (0.1° F) *
Accuracy	: ± 1° C (2° F) *
Humidity Range	: 10 to 99% *
Humidity Accuracy	: ±5% *
Humidity Resolution	: 1% *
Power	: 1 x AAA Battery *
Display	: LCD (88 x 25mm) *
Clock	: *

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



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WET & DRY THERMOMETER

ANNEXURE - I : BASIC DETAILS OF THE MACHINE SR.NO.4.0

DESCRIPTION	
(To be specified by the supplier, if any variation)	
Machine / Equipment	: Wet and Dry Thermometer
Scope	: Supply, Installation, Commissioning and Validation of Wet and Dry Thermometer at site of M/s. Homco -Kerala with Calibration Certificate
Measuring Range	: 0 to 50° C (30 to 120° F), 110°, 360° C*
Resolution	: 1° C / 1° F*
Accuracy	: ±1° C/2° F *
Quantity Required	: 0 to 50° C (5 nos. with 0.5° resolution) 0 to 110°C (2 Nos. with 1° resolution) 0 to 36° C (1 Nos. with 1° resolution)

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



(I. Ansari)



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ANNEXURE - II : 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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ANNEXURE - III : 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. *		
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**



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ANNEXURE - IV : 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 - V : 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) *
- If any items required but not included in URS, to be mentioned and submitted with unit rate and quantity * (And it can be indicated 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 - VI : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for the Installation, commission and validation of this lab item should 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 - VII : APPROVED MAKES

Stainless Steel Sheet & Pipe: Tata / Jindal	:	*
Cables: Finolex / Polycab	:	*
<p>❖ Any other components, not mentioned above, to be specified by the vendor.</p> <p>❖ 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.</p>		

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



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ANNEXURE - VIII : 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 - IX : 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 along with quotation.		
<i>Any other terms, not mentioned above, also to be specified.</i>		

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



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ANNEXURE - X : 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 Good 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
23.	FAT	:	Factory Acceptance Test
24.	SAT	:	Site Acceptance Test

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



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