



(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

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Email: homcokerala@gmail.com

#### Supplier's Copy

# USER REQUIREMENT SPECIFICATION

Name of the Company	:	the same of the sa
Contact Person	1 :	DESC (To be specified by the
y, Installation, Commiss <sup>®</sup> searbbA P model Magnetic Stimer (With Ho	Do 10	
Contact Details	along M/s.1	
Department	. *	QCL LAB -First Floor
Equipment and Code No.	140 k	Magnetic Stirrer (With Hot Plate)
RPM. *  Name of work  as per their equipment design	:	Supply, Installation, Commissioning & Validation of cGLP model Magnetic Stirre 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

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Office: Pathirappally, Alappuzha, Kerala, India. Pin-688 521

Phone : 477 2258012 :477 2258665 Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### MAGNETIC STIRRER (WITH HOT PLATE)

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

(To be specified		e 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
LAS -First Floor	ودر	Department :*
Capacity	•	0.5 to 1 Liter. *
netic Stirrer (With Hot Platessi2	Bew	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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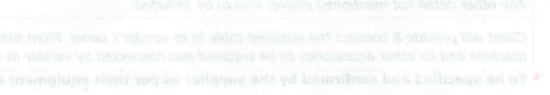
Email: homcokerala@gmail.com

#### ANNEXURE - II, III : CGMP & OPERATIONAL FEATURES

		DESCRIPTION
	(To be specifi	ed by the supplier, if any variation)
мос	*Va   A Y	SS 316 / SS 304 *
Finish		Mirror Finish*

#### The machine should consist of:

- 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. \*







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Email: homcokerala@gmail.com

#### ANNEXURE - IV : ELECTRICAL DETAILS

( To be specifie		ne supplier, if any variation)
Standard Operating Frequency	e ent v	50 Hz
Standard Operating Voltage	als.	230 / 415V*
Total power consumption	da ios	Finish *
Motor Details with rpm		The machine should consist of:
Gear Box Details (If any)	s kini	Unit should uniformly homogenize
PLC and HMI details		* Should provide with soft start
VFD details (If any)	ger iso	Unit should consist of electronic in
Tower lamp	sisiq 1e	Should provide with SS 316 top I
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		*

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.

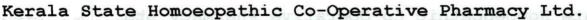
\* To be specified and confirmed by the supplier as per their equipment design sc



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Website: www.homcokerala.com

Phone: 477 2258012 477 2258665

: 0477 2258012

#### **DESCRIPTION**

Email: homcokerala@gmail.com

(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. \*





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Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### : SAFETY FEATURES ANNEXURE - V

#### A Winna between Panel NOITGIRDZEO should be in the Scope of Vendor. Ti

(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\*







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Email: homcokerala@gmail.com

#### ANNEXURE - VI : UTILITY REQUIREMENT

(To be spec		d by the supplier, if any variation)
Vacuum	•	Use of Lubricants :
Compressed Air  Indication of drain points if regards the size, valve each		Ordinary *  Non-Lubricated *
If any other utility required		To be specified and confirmed by the super

\* 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

	DE	SCRIPTION	
(To be spe	cified by	the supplier, if any	variation)
Mode of machine cleaning	ilogija arb	To be specified w	
Use of Lubricants		*	Vacuum

Drain points: Vendor should specify the pipe size and location of drain points <u>if required</u> as per their system's drain requirement with pipe, nozzle size, valve etc.\*







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:477 2258665 Fax : 0477 2258012

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Email: homcokerala@gmail.com

ANNEXURE - VIII

MECHANICAL DETAILS

(To be specified by the supplier, if any variation)				
Dimension (In mm)	:	*		
Net Weight (In Kgs.)	SCIRL	*		
Type of Packing	the sa	(To be specified to		
Case Dimension (In mm)	rong b	> Optional Items (If any, Vendor shout		
Gross Weight (In Kgs.)	Unit	If any items required but not include		
Foundation details (If required)	:	*  Is a function of storage one of storage of the s		







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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.





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Email: homcokerala@gmail.com

#### 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	a Mia	respondition the part part and the second
PLC: Siemens / Allen Bradely / Delta	vong ad•l	of this lab item shou
HMI: Siemens / Allen Bradely / Delta / Exor	ni jnak	Andque liste vobneV 🔍
Cables: Finolex / Polycab		*

- Any other components, not mentioned above, to be specified by the vendor.
- All the Component Makes should match with the Approved Makes listed above. Any deviation from this should be documented and communicated to HOMCO and Pharma Consultant.





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#### ANNEXURE - XII

#### DOCUMENTATION

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	Packaging an
2	SAT/FAT procedures nev v8	2 sets	is gailescl-nU
3 116	Operation manual Tuper 11)	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	exaT\ sebx3
7	List of instruments ad a T a manage	2 sets	Frof leheueld
8	Calibration certificates V va gnine 22	2 sets	s appelletant
9	Warranty / Guarantee angivered bug ainsu	2 sets	Sobrillasion
10	List of all components with referencing	2 sets	Nesponse to
11	Civil foundation drawings	2 sets	o moteatendu 2
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	Catalogue, El
18	Test Certificates of all material of construction	2 sets	Any other te
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	TEGHA



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Email: homcokerala@gmail.com

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ANNEXURE - XIII : TERMS AND CONDITIONS

Delivery Period	e ed	Sc. Document to
Payment Terms	:	As mentioned in tender.
Packaging and forwarding	GI (SO	By Vendor 1900 bits rigited 1
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 <b>supervision</b>
Excise / Taxes /GST	:	All engineering drawings
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	:	By Vendor Certification 6
Submission of documents and drawings		'9 Warranty / Guarantee
Response to URS and submission of quotation	ne <b>:</b> el	Within 1 week noo list to let 1
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 confirmed by the supplier as per their equipment design



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Phone : 477 2258012 :477 2258665

Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### ANNEXURE - XIV

#### ABBREVIATION

1.	URS		User Requirement Specification.
2.	номсо		Kerala State Homeopathic Co-operative Pharmacy Ltd
3.	DQ	1	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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Office: Pathirappally, Alappuzha, Kerala, India. Pin-688 521

Website: www.homcokerala.com

Phone: 477 2258012

:477 2258665

Fax : 0477 225801

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### USER REQUIREMENT SPECIFICATION

Email: homcokerala@gmail.com

Name of the Company		p 8 3 4
Contact Person		67 v3 beithage ad 510 T
Address	han Hen	
Contact Details	110 H	E-STEELE)
Department	.*	
Equipment and Code No.		Digital Weigh Balance (Platform Type)  (For production and stores)
Name of work * 200 00 00 00 00 00 00 00 00 00 00 00 00		Supply, Installation, Commissioning of cGMI Digital Weigh Balance (Platform Type) a M/s. HOMCO –Kerala -
Ref. No.		(mm) es E mollofi
Date * mag n on it adaption		Chas Type : : : : : : : : : : : : : : : : : : :
* THE DE THE BURNERS ENCLOSURES * LACE OF ACT	008	: 'Marking Temperature Pange
Quantity	A CONTRACTOR OF THE CONTRACTOR	As mentioned in details



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



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Office: Pathirappally, Alappuzha, Kerala, India. Pin-688 521

Phone: 477 2258012 :477 2258665

Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

# (PLATFORM TYPE )

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

	DES	CRIPTION		
(To be specifie	ed by th	ne supplier, if any variation)		
Scope	:	Supply, Installation and Commissioning of cG model Digital Weigh Balance-Platform type ald with connecting accessories, cables etc. at M HOMCO –Kerala at		
Machine	* * <b>:</b>	Digital Weigh Balance (Platform type )		
Model	:	* insparinger		
Capacity (Kg)	: 3.Ng/Q	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



CONSULTANT: M/S. KNACK TECHNOCRATS

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Office: Pathirappally, Alappuzha, Kerala, India. Pin-688 521

Phone: 477 2258012 :477 2258665

Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### ANNEXURE - II, III : CGMP FEATURES & OPERATIONAL FEATURES

		DESCRIPTION					
(To be specified by the supplier, if any variation)							
MOC	340 Maria (2010) (100 Maria (2010) (2	Stainless Steel *					
Finish		*					

#### Unit should consist of following features:

- 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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Phone : 477 2258012 :477 2258665

Fax : 0477 2258012

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Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### ANNEXURE - IV : ELECTRICAL DETAILS

(To be specifie	TTHE	RIPTION e supplier, if any variation)
Standard Operating Frequency		50 Hz
Standard Operating Voltage	:	230 / 415V*
Rating watts		*
Total power consumption	1255,123	Unit should consist of following fert
PLC and HMI details		* R.D Dark Higher available R.D. Land R.D. Dark Higher R.D. L. R.D. Branch R.D. R.D. R.D. R.D. R.D. R.D. R.D. R.D
VFD details (If any)	<b>4</b>	*
Tower lamp (If required)		*
Starter		*
Major Cabling details		
For Main supply (In client's scope)		la un side a échiumes du se la ás O
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	8	To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cable length with equipment		*

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



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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



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Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### 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 an 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. \* possess a second of the contact o

Wherever possible, warning symbols should be provided. \* 60 to vibile Vent

Electrical wiring must be concealed\*







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Phone: 477 2258012 :477 2258665

ODMON

Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### ANNEXURE - VI

#### UTILITY REQUIREMENT

DESCRIPTION  (To be specified by the supplier, if any variation)					
Vacuum :	Made of machine cleaning **:				
Compressed Air	Ordinary *  Leading to the second of the sec				
and location of drain points if any re-	Non-Lubricated * Hone Tobac V armog MaiG				
Any other utilities	*				
as per their equipment design.	* To be specified and confirm by the supplier				

\* 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.







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Phone: 477 2258012 :477 2258665

Fax : 0477 2258012

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Website: www.homcokerala.com

Email: homcokerala@gmail.com

ANNEXURE - VII

**CLEANING TECHNIQUE** 

	DE	SCRIPTION	
(nonshe (To be spe	ecified by	the supplier, if any	variation)
Mode of machine cleaning		*	Vacuum
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

pecified and confirm by the supplier as per their equipment's designent with pressure and flow rate and pipe /nozzle size required.





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ANNEXURE - VIII

MECHANICAL DETAILS

<b>DESCRIPTION</b> (To be specified by the supplier, if any variation)						
Dimension (In mm)	:	*				
Net Weight (In Kgs.)	:	* * * * * *				
Type of Packing		* : Proper (vas i) email (sacia) s				
Case Dimension (In mm)		*				
Gross Weight (In Kgs.)		*				
Foundation details (If required)	1	*				







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Email: homcokerala@gmail.com

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 weighment 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.





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Email: homcokerala@gmail.com

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.

ud ADENGUA (PA) dan makuka at kwamata hadaaya ad ad adaayaa abb

Vendor shall support client in execution of all the Qualification Phases.







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Email: homcokerala@gmail.com

#### ANNEXURE - XII

#### DOCUMENTATION

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	
2	SAT/FAT procedures	2 sets	
3	Operation manual was believed and dank instruction?	2 sets	nssO Dag
4	Maintenance manual	2 sets	dasra gob
5	Spare parts manual regulation and the total college of doubt 1	2 sets	kin sabasir k
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	TEGRA



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: 0477 2258012 Fax

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Email: homcokerala@gmail.com

#### ANNEXURE - XIII TERMS AND CONDITIONS

Delivery Period notification and unananteed to the Delivery Period notification of the Delivery Period	:	1, 1985
Payment Terms 10-00 philagopenists state state	:	As mentioned in tender.
Packaging and forwarding	:	By Vendor
Un-loading at site  action for the loading at site  action for the loading at site  books of the loading at site  books of the loading at site  action for the	:	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	•	* DOM
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	:	By Vendor
Submission of documents and drawings	nor offer record communities	33 81
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 and object	:	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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Phone : 477 2258012 :477 2258665

Fax : 0477 2258012

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Email: homcokerala@gmail.com

#### ANNEXURE - XIV : ABBREVIATION

1.	URS	*:	User Requirement Specification. bobbee voorlied .
2.	nentioned in ten ODMOH	4:	Kerala State Homeopathic Co-operative Pharmacy Ltd.
3.	y Vendor QQ	3:	Design Qualification pmbrawiot bne pmpadbe9
4.	y vendor /Supplier QI	g:	Installation Qualification afic at pulbeol nu
an <b>.</b> Z		:	Operational Qualification
6.	unicading can be done by	:	Performance Qualification
7. <sub>90</sub>		:	Stainless Steel
8.	nder the client's supervision	;	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	Ÿ.:	Current Good Manufacturing Practices
15.	ithin a week after ordM&O	V:	Operation and Maintenance stab to not saim dust
16.	GA	:	General Arrangement Emenas bas nousellibers
17.	SLD TAR enoted aleest	:	Single Line Diagramge TA2 \ TAT to no reimidue
18.	HOD revited transport	v :	Head of Department, OO ONA DETO NOISSUNDING
19.	Irthin a week ofter receiAQ	y :	Quality Analysis emerged \ LpniwerG
20.	MRP	:	Maximum Retail Price
21.	NMT	:	Not more than
22.	of establishment to be QAV	16 <b>.</b> 0 y	Variable frequency drive meaning a suggisted
23.	FAT	:	Factory Acceptance Test .golfadoup alliw
24	SAT	:	Site Acceptance Test
	-USES		The state of the s

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



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Fax : 0477 2258012

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Email: homcokerala@gmail.com

Supplier's Copy

# USER REQUIREMENT SPECIFICATION

Name of the Company				
Contact Person		HOTTHIADO2G ARE		
		NOV		
Address	1:	1.0 SHUICK DRUGIBLE WITH LIB		
20125		2.S DIGITAL STURWATCH		
Contact Details		ASTOMETER O.E		
Department GT ET	;	QCL- First Floor BMAR YTIGIMUR		
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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:477 2258665

Fax : 0477 2258012

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#### OCL LABORATORY EQUIPMENT

# AO TADIADOS EQUIPMENT LIST

SR.	DESCRIPTION	CAPACITY	REMARK
NO.		ct Person	
1.0	SILICA CRUCIBLE WITH LID	25 ML	and the A
2.0	DIGITAL STOPWATCH	25NOS.	
3.0	HYGROMETER	ct Details	Conta
	TEMPERATURE RANGE	50 TO 70°C	
	HUMIDITY RANGE DO 120 120 120 120	15 TO 95%	eqeq.
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 1 - 3 HUX 3 M M A
(To be specifi	ied by the supplier, if any variation)
Machine / Equipment share you it :	Silica Crucible with Lid
: equal specification of the s	reading / Edebiteur
to at site of M/s. Homco -K. leboM	Scope Digital Stops
Density -915311 71:	2.2 g/cm³ *
Hardness 592 68 , ni:	6 to 7 Mohs * sgns gnnusseM
Poisson's Ratio (nwob & u :	Resolution * : * 71 of 0
Young's Modulus * notional:	7.4 x 10 <sup>5</sup> Kg/cm <sup>2</sup> *
Tensile Strength :	600 to 700 Kg/cm <sup>2</sup> *
Softening Temperature	1700 ° C *
Annealing Temperature :	1150 ° C *
Working Temperature :	1050 ° C (Continuous) *
Operating Temperature :	
Qty. required :	25 Nos.

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



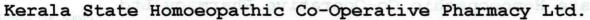
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TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com

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:477 2258665

: 0477 2258012

Website: www.homcokerala.com

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

DIGITAL STOPWATCH

(Tempusy vito II	1,1211	DESCRIPTION				
(To be specified by the supplier, if any variation)						
Machine / Equipment		Digital timer	Scope			
in tid at site of M/s. Homeo -Ke		Supply, Installation, Commiss	ioning and Validation of			
Scope		Digital Stopwatch at site of M/s. Homco -Kerala w				
		Calibration Certificate.				
Measuring Range	:	99 hrs., 59 min., 59 sec. *	Hardness			
Resolution	:	1 sec. (Count up & down) *	Poisson's Ratio			
Functions	ro <b>k</b> e	Last memory function *	Young's Modulus			
Sound * Son	MgD)	Loud sound *	Tensilo Strength			
Power	•	2 x 1.5V AAA Battery *	Softening Tempera			
Display	ı	kure . 1 - 1 1150 0 *	Annealing Tempera			

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



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Email: homcokerala@gmail.com

#### DIGITAL THERMO HYGROMETER

ANNEXURE - I

BASIC DETAILS OF THE MACHINE SR.NO.3.0

if any variation)	her.	DESCRIPTION
(To be sp	ecifie	ed by the supplier, if any variation)
Machine / Equipment	1616	Digital Thermo hygrometer
rmometer at site of M/s. Homco	enti-	Supply, Installation, Commissioning and Validation of
Scope	ned	Digital Thermo Hygrometer at site of M/s. Homco -
120° F), 110°, 360° C*		Kerala with Calibration Certificate
Measuring Range	•	0 to 50° C (32 to 122° F) *
Resolution		0.1° C (0.1° F) *
Accuracy (nodulozon 92.0 rilliw a	on a	± 1° C (2° F) *
Humidity Range	и <u>с</u> )	10 to 99% *
Humidity Accuracy (1) 41 His 2	ow.i	±5% <b>*</b>
Humidity Resolution	:	1% *
Power	:	1 x AAA Battery *
Display		LCD (88 x 25mm) *
Clock	:	*
	1	

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



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TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com

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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				
. (3)2)	: Supply, Installation, Commissioning and Validation of				
Scope Some grantissimmo	wet and Dry Thermometer at site of M/s. Homco -kerala				
Measuring Range	: 0 to 50° C (30 to 120° F), 110°, 360° C*				
Resolution	: 1° C / 1° F*				
Accuracy	: ±1° C/2° F *				
	: 0 to 50° C (5 nos. with 0.5° resolution)				
Quantity Required	0 to 110°C (2 Nos. with 1° resolution)				
	0 to 36° C (1 Nos. with 1° resolution) A vibinuit				

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



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#### ANNEXURE - II ELECTRICAL DETAILS

(To be specified by the supplier, if any variation)				
Standard Operating Frequency	Tara.	50 Hz		
Standard Operating Voltage	lonu: b	230 / 415V*		
Total power consumption		Mode of machine cleaning **		
Motor Details with rpm		Use of Lubricants *		
Gear Box Details (If any)	to Least	All contact parts should be easily disman desired		
PLC and HMI details	5 5/2/6	Drain points: Vendor should specify the #1		
VFD details (If any)	•	*		
Tower lamp	plier a	* To be specified and confirm by the sup		
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		*		

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 yendor at site.

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



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TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com



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ANNEXURE - III

CLEANING TECHNIQUE

(To be spe		SCRIPTION the supplier,	if any variation)
Mode of machine cleaning	•	*	Total power consumption
Use of Lubricants		*	
All contact parts should be easily	dismantle	ed and clean	able. *
Drain points: Vendor should spe per their system's drain requiren			location of drain points if required as size, valve etc.*







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ANNEXURE - IV :

MECHANICAL DETAILS

<b>DESCRIPTION</b> (To be specified by the supplier, if any variation)				
Dimension (In mm)	:	*		
Net Weight (In Kgs.)	CITYES	D23d		
Type of Packing		*		
Case Dimension (In mm)	:	*		
Gross Weight (In Kgs.)	teð duri	rate and quantity * (And it can be indica		
Foundation details (If required) below	tipeds	Details of Bought out components to be		









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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.







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Email: homcokerala@gmail.com

#### 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	.e/yM (#	x Trauming to all conce <b>*</b> i
Cables: Finolex / Polycab	ione h	validation of this lab∗

- \* Any other components, not mentioned above, to be specified by the vendor.
- All the Component Makes should match with the Approved Makes listed above. Any deviation from this should be documented and communicated to HOMCO and Pharma Consultant.

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



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Pin-688 521

ANNEXURE - VIII

DOCUMENTATION

Sr. No.	Document to be supplied	Qty	Remarks	
1	Design and operational qualification	2 sets	Packaging and	
2	SAT/FAT procedures robney va	2 sets	da gnibaol-nt.	
3	Operation manual	2 sets		
4	Maintenance manual	2 sets		
5	Spare parts manual	2 sets		
6	All engineering drawings	2 sets	Exclse / Taxes	
7	List of instruments as ed at a second	2 sets	Material for Tri	
8	Calibration certificates may you	2 sets	Installation an	
9	Warranty / Guarantee agniws b bas aine	2 sets	Submission o	
10	List of all components with referencing	2 sets	Kosponse to U	
11	Civil foundation drawings	2 sets	Submission of	
12	Pre installation requirements	2 sets	S HEDESHUSES S	
13	Installation requirements	2 sets	TO HORSENTONE	
14	Installation manual	2 sets	sih Vandaues C	
15	Technical literature, data sheets and equipment catalogues	2 sets		
16	DQ, IQ, PQ documents.	2 sets	WINNESS ON P	
17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	2 sets	Catalogue, Equation and all and all all all all all all all all all al	
18	Test Certificates of all material of construction	2 sets	Any outer rem	
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	TECHA	



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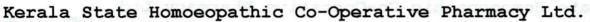
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TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com

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Fax : 0477 2258012

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### ANNEXURE - IX : TERMS AND CONDITIONS

Delivery Period		Sr. Dacument to b
Payment Terms	:	As mentioned in tender.
Packaging and forwarding	:0	By Vendor 151900 bns ngised 1
Un-loading at site	:	By vendor /Supplier GTARTAR
ates S -		(If required, help for the arrangements
Star S.		of unloading can be done by client)
ates S.		Installation in position by the vendor under the client's <b>supervision</b>
Excise / Taxes /GST	-:	* All engineering orawings *
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	:	By Vendor Dilutes notherdisciple 10
Submission of documents and drawings		9 Warranty / Guprantes
Response to URS and submission of quotation	nL <b>i</b> ae	Within 1 week among the to set J. O.
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



CONSULTANT: M/S. KNACK TECHNOCRATS

42, AVINASH, SEVEN BUNGALOWS, JAY PRAKASH ROAD, ANDHERI (W), MUMBAI

TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com

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Office:Pathirappally Alappuzha, India Pin-688 521 Phone : 477 2258012 :477 2258665

: 0477 2258012

Fax

Website: www.homcokerala.com

Email: homcokerala@gmail.com

#### ANNEXURE - X

#### ABBREVIATION

1.	URS		User Requirement Specification.
2.	номсо	- :	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.	НР		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.



CONSULTANT: M/S. KNACK TECHNOCRATS

42, AVINASH, SEVEN BUNGALOWS, JAY PRAKASH ROAD, ANDHERI (W), MUMBA

TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com

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