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Alappu

Office:Pathirappally Alappuzha, 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	:	
		DESCR
Address	te 9 hr	tative same and the specified by the statement of the same same and the same same same same same same same sam
Contact Details	f Plorta	Supply o
Department		QCL- First Floor
Equipment and Code No.		Mortar and Pestle
Name of work	•	Supply of cGLP model Mortar and Pestle at M/s. Homco –Kerala on first floor.
Ref. No.		Pestle Helgiut 157 ran
s per their equipment de Stad	a wilg	* To be specified and confirmed by the sur
Enclosures		
Quantity		01 No.

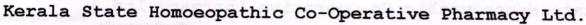




42, AVINASH, SEVEN BUNGALOWS, JAY PRAKASH ROAD, ANDHERI (W), MUMBAI – 400 053 TEL. NO.: 022-2636 1629, Email: infoknack@gmail.com

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MORTAR AND PESTLE

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

		DESCRIPTION ROSSESS TOURISTS
(To be sp	oecifie	ed by the supplier, if any variation)
Machine / Equipment		Mortar And Pestle
Scope	323	Supply of Mortar and Pestle at site of M/s. Homco - Kerala
Capacity	•	* Improve the state of the stat
Top Outer Diameter of Mortar	:	155 mm *
Top Inner Diameter of Mortar	io il	125 mm *
Pestle Height	•	157 mm *





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ANNEXURE - II

CLEANING TECHNIQUE

DESCRIPTION

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

Mode of cleaning

-

All contact parts should be easily dismantled and cleanable. *

Easy washing and cleaning facility should be available. *

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





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ANNEXURE - III :

MECHANICAL DETAILS

		CRIPTION he supplier, if any variation)
Dimension (In mm)	: *	Mode of cleaning
Net Weight (In Kgs.)	ris i	All contact parts should be easily dismanute
		Easy weahing and cleaning facility should *
Case Dimension (In mm)	e S	Drain points: Vendor should specify the #1
		per their system's drain requirement with
Foundation details (If required)	o i lq	*- To be specified and confirm by the c*t





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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) *
- 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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ANNEXURE - VI

DOCUMENTATION

Sr. No.	Document to be supplied	Qty	Remarks	
1	Design and operational qualification	2 sets		
2	SAT/FAT procedures the list and ablyong bluods nobney with	2 sets	El lenettqO K	
3000	Operation manual (Vandors shannam noitare)	2 sets	z Recomme	
4	Maintenance manual ment laure in URS, to be ment lauram sonanamiaM	2 sets	× If any iten	
5	Spare parts manual bid-end printip betasibili ed nas ti bnA)	2 sets	rate and q	
6	All engineering drawings and another a	2 sets	Any other and	
7	List of instruments	2 sets	To be specifi	
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	4 TEC	



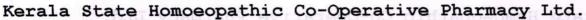
CONSULTANT: M/S. KNACK TECHNOCRATS

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ANNEXURE - VII **TERMS AND CONDITIONS**

Delivery Period and address of state also	19)	2. HOMOD ::*
Payment Terms nollsonlisu() agis	50	As mentioned in tender.
Packaging and forwarding	En:	By Vendor
Un-loading at site	94	By vendor /Supplier
	199	(If required, help for the arrangements
	312 -	of unloading can be done by client)
	gull -	Installation in position by the vendor
	all fi	under the client's supervision
Excise / Taxes /GST	147	*
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	i	By Vendor
Submission of documents and drawings		14 GMP
Response to URS and submission of quotation	ıg'	Within 1 week
Submission of detail functional design	BØ:	Within a week after order finalization
specification and schematic drawings	18	17. STD
Submission of FAT / SAT specification	al-i	2 weeks before FAT
Submission of IQ AND OQ documents	9:	With equipment delivery
Drawings / diagrams	blo:	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

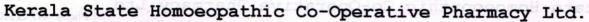


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ANNEXURE - VIII ABBREVIATION

1.	URS	:	User Requirement Specification.
2.	номсо	.*	Kerala State Homeopathic Co-operative Pharmacy Ltd.
3.	nentioned in tender. QQ	AS I	Design Qualification
4.	Vendor QI	VE:	Installation Qualification and forward bus paigests 9
5.	rendor /Supplier 90	ŧа	Operational Qualification
6.	PQ required, help for the PQ	ain	Performance Qualification
7.	oloading can be done b 22	10	Stainless Steel
8.	RHS noticed in noticis	DAI.	Right Hand Side
9.	er the client's supervision	oriu l	Material of Construction
10.	KW	: 1/2	Kilo Watt
11.	QH (o be arranged by client)	7 5	Horse Power
12.	RPM	:	Rotation Per Minute
13.	FLP	:	Flame Proof
14.	cGMP		Current Good Manufacturing Practices
15.	O&M	777	Operation and Maintenance
16.	GA 19819 19716 NSSW & IUR	11/0/	General Arrangement
17.	SLD	:	Single Line Diagram
18.	HOD IA3 enoise EA	V.S.	Head of Department age TAS VTAR to no gamma use
19.	n equipment delivery AQ	N#/	Quality Analysis musen do dua or to notesimula
20.	MRP setter receignment	ni.	Maximum Retail Price
21.	NMT	:	Not more than
22.	VFD	:	Variable frequency drive
23	n of establishment toTA3	97	Factory Acceptance Test
24	SAT	7:	Site Acceptance Test shortstoup driev prole

Any other details, not mentioned in Annexure I to VII, to be specified in the quotation/specification by the and confirm by the supplier as per their equipment design .robney

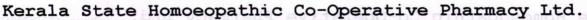


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Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	:	1703232
Contact Person	ail•jq	(To be specified by the si
eton, Commissioning & Validation ating Mantle With Energy sserbbk		
Contact Details		ODMOH HOMEO
Department		QCL-First Floor
Equipment and Code No.	mos.	Heating Mantle with Energy Regulator.
Name Of Work		Supply, Installation, Commissioning & Validation of cGLP model Heating Mantle with Energy Regulator at M/s. HOMCO –Kerala
Ref. No.	res Y	* To be specified and conturn by the supplie
Date	:	
Enclosures	:	
Quantity		06 Nos.



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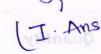
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HEATING MANTLE WITH ENERGY REGULATOR

ANNEXURE - I BASIC DETAILS OF THE MACHINE

		DESCRIPTION	
(To be sp	ecified	by the supplier, if any variation)	
Scope		Supply, Installation, Commissioning & Validation of CGLP model Heating Mantle With Energy Regulator along with connecting accessories, cables etc. at M/s	
Туре	et Flo	Department : QCL-#i	
Model		*	
Preferred Make	JAC 15	Borosil , Labman, Remi, Glassco *	
Capacity	denI.	Name Of Work	
Max. Temperature			

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





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ANNEXURE - II & III : CGMP AND OPERATIONAL FEATURES

DESCRIPTION

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

MOC

The instrument should consist of:

- Body of the heating mental should be of aluminum powder coated. *
- Heating element knitted fiber glass netting should properly insulated. *
- For long lasting of elements nichrome wire should use. *
- Energy regulator should be provided for temperature control. *
- Non breaking nichrome connection having porcelain beeds should cover to net. *
- Should be easy to replace the nets. *
- Should be insulated in glass wool. *

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





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ANNEXURE - IV

ELECTRICAL DETAILS

		e supplier, if any variation)
Standard Operating Frequency	e esta	50 Hz (3902 90 0T)
Standard Operating Voltage		230 / 415V*
Total power consumption	:	* The instrument should consist of:
Motor Details with rpm Wood munimide	0.91	* Body of the heating mental shoul*
Gear Box Details (If any)	Par	➤ Heating element knitted filter gla*
PLC and HMI details	u . ej	For long tasting of elements mich *
VFD details (If any)	rat t	■ Energy regulator should be provis
Tower lamp Diuoda abasid mislasting in	lysn	Non breaking mehrame connection
Starter	:	Should be easy to replace the nex
Major Cabling details		Should be insulated in glass wool.
For Main supply (In client's scope)	il : jg	* To be specified and confirm by the su
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 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. ★ Management of the Signal Cables should be shielded to avoid interference.
- Complete Earthing of Equipment. *
- Complete covering of Electrical Cables and Other Connections. *

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

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ANNEXURE - 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. * and political

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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ANNEXURE - VI :

UTILITY REQUIREMENT

(To be spec	cifie	DESCRIPTION ed by the supplier, if any variation)
Vacuum		Mode of machine deaning := * *
Compressed Air	713	Ordinary * Non-Lubricated *
If any other utility	:	per their system's deep requirement with pipe, or 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 along with any valve, pipe, nozzles size required and scope of supply.





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ANNEXURE - VII

CLEANING TECHNIQUE

	DE	SCRIPTION	
(Aoda (To be spe	cified by	the supplier, if any	variation)
Mode of machine cleaning		*	Facus 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 required** as per their system's drain requirement with pipe, nozzle size, valve etc.*







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ANNEXURE - VIII

MECHANICAL DETAILS

(To be specified by the supplier, if any variation)					
Dimension (In mm)	:	*			
Net Weight (In Kgs.)	19. 9 .1	*a			
Type of Packing	qua si	*/1 beniesgs sid of)			
Case Dimension (In mm)	avenq	▼ Optional Items (If any, Vendor shor≰			
Gross Weight (In Kgs.)	aų n	2 If any Items required but not include:			
Foundation details (If required)	•	tate and quantity * (And it can be mid			





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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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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.

(I. Ansani)





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ANNEXURE - XI : APPROVED MAKES

Stainless Steel Sheet & Pipe: Tata / Jindal	:	*	y Training to all con
PLC: Siemens / Allen Bradely / Delta	1	*	validation of this la
HMI: Siemens / Allen Bradely / Delta / Exor	:	*	documented.
Cables: Finolex / Polycab	ne	*	 Vendor shall support

- * 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.	beildque ad ot the supplied in tender.	Qty	Remarks
1	Design and operational qualification	2 sets	a onlysybra
2	SAT/FAT procedures obnev yê	2 sets	Un-loading a
300	Operation manual	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	Evdse / Yax
7	List of instruments and oT) *	2 sets	Material for
8	Calibration certificates neV v8	2 sets	nedslasanI
9	Warranty / Guarantee applies to box at name	2 sets	Submission
10	List of all components with referencing descended in the state of the	2 sets	Response to
11	Civil foundation drawings	2 sets	Submission
12	Pre installation requirements	2 sets	1043636153605
13	Installation requirements	2 sets	
14	Installation manual	2 sets	Canning
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, along with o
18	Test Certificates of all material of construction	2 sets	t redto ynA
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	* To be spo



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Kerala State Homoeopathic Co-Operative Pharmacy Ltd.

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Email: homcokerala@gmail.com

Website: www.homcokerala.com

ANNEXURE - XIII : TERMS AND CONDITIONS

Delivery Period	a ed	Sr. Document to
Payment Terms	•	As mentioned in tender.
Packaging and forwarding	ner/i	By Vendor date of the Angles of the Land o
Un-loading at site		By vendor /Supplier, TARVIAGE S
		(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	:	* All engineering drawings *
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	:	By Vendor certific robney VB
Submission of documents and drawings		9 Warranty / Guarantee
Response to URS and submission of quotation	iprien	Within 1 week groot lis to tail to 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 confirm by the supplier as per their equipment design



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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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Supplier's Copy

USER REQUIREMENT SPECIFICATION

Name of the Company	1	Deag
Contact Person	inins	(To be specified by the
Address Tide of Tolds T. Japan 9.		
Contact Details	-P\M	
Department	něri	QCL- First Floor
Equipment and Code No.	2 no 25 B	Tablet Friability Test Apparatus
Name of work		Supply, Installation, Commissioning & Validation of cGLP model Tablet Friability Test Apparatus at M/s. HOMCO –Kerala
Ref. No.	2-lin	Countes (Relation) Display
Date * bicogyes elitos [1 to 1	Taget - 1
Enclosures	6 Total	* to be specified and confirm by the supp
Quantity	:	1 No.



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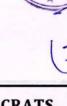
Email: homcokerala@gmail.com

TABLET FRIABILITY TEST APPARATUS

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

/To be enecified		CRIPTION				
Scope (10 be specified	:	he supplier, if any variation) Supply, Installation, Commissioning & Validation of cGLP model Tablet Friability Test Apparatus along with connecting accessories, cables etc. at M/s. HOMCO –Kerala				
Model	:	*				
Type Tool 3217	-100	Front loading*				
Number of Drums		2 nos.*				
Fixed RPM	:	25 RPM*				
Accuracy of moissillaten , vis	(d#5	± 1 rotation* Now to sms//				
Timer COLE MODEL TO A TO	Valu test	Settable up to 11 hrs. 59 min. 59 sec. *				
Counter (Rotation)		1 to 9999 rotations *				
Display		2-line LCD Display*				
Input	:	4 x 4 Tactile keyboard *				

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





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ANNEXURE - IV : ELECTRICAL DETAILS

(To be specifie	- /4 (3-6-6)	CRIPTION e supplier, if any variation)
Standard Operating Frequency		50 Hz
Standard Operating Voltage		230 / 415V*jeiznos bluode enidosm edT
Total power consumption	iesn.	Unit should have front loading 4.
Motor Details with rpm	reinisri	E e Unit should have Interlocking nie
Gear Box Details (If any)	G-07840	# Unit should be incorporated with
PLC and HMI details the not looned its	aliga : o	* Keyboard should be alphanun*
VFD details (If any)		number for data authentication*
Tower lamp	i ismaï	Should be Programmable Modes:
Starter		F Tablets should load easily. *
Major Cabling details	6 01 09	> Orums should have a slot position
For Main supply (In client's scope)		of two energy blunds energy again
For Main drive motor	× 56	* whosh 0.1 of the binoria togonistact.
End connection details	ms roun	MCB or Socket should be with equipment
Earthing requirement	a his	Arrangement should be with system
An Isolator Circuit breaker	ode tr	point of appropriate capacity by vendor. *
Cable length with equipment	1	* Instrument should comply what *

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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ANNEXURE - II & III : CGMP AND OPERATIONAL FEATURES

DESCRIPTION

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

MOC

*

The machine should consist of:

- Unit should have front loading system. *
- Unit should have Interlocking mechanism so as to ensure correct drum position. *
- Unit should be incorporated with micro-controller circuitry and to be user friendly. *
- Keyboard should be alphanumeric splash proof for entries like sample name, batch number for data authentication. *
- Should be Programmable Modes: Timer or Rotation. *
- Tablets should load easily. *
- Drums should have a slot positioned to automatically discharge the tables into the trays at the end of the test without dismantling the drum assembly. *
- Error message should trace out the problem. *
- Instrument should tilt to 10 degrees. *
- Should support regular friability drum and abrasion drum. *
- Calculated friability percentage should be indicated on the display as well as print. *
- Balance interface for sample weight should transfer. *
- Instrument should comply with USP, BP and IP specifications. *
- Report printout should comply with GLP specifications. *
- Parallel port should be provided for test report. *

* 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)

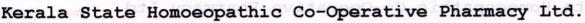
Miscellaneous:

- 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. *









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ANNEXURE - V : SAFETY FEATURES

Wifing between Panel NOITQISOSOE should be in the Scope of Vendor.

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

The equipment should be provided with motor overload safety relay. * and and a 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. * hospe is not be a larger to the contact. * hospe is not be a la

Wherever possible, warning symbols should be provided. * 150 to vibilist of T

Electrical wiring must be concealed *

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



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TECH

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ANNEXURE - VI

UTILITY REQUIREMENT

(To be specified by the supplier, if any variation)				
Vacuum		Mode of machine cleaning : * Use of upbricants : *		
Compressed Air	decable			
Any other utility		per their system's drain requirement with Dipe, in		

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





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ANNEXURE - VII :

CLEANING TECHNIQUE

(To be spe		SCRIPTION the supplier, if	any variation)
Mode of machine cleaning		*	Vacuum
Use of Lubricants	•	*	
All contact parts should be easily	dismantl	ed and cleanab	* .al
Easy washing and cleaning facilit	y should l	be available. *	
Drain points: Vendor should spe per their system's drain requiren			cation of drain points if required as e, valve etc.*







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ANNEXURE - VIII

MECHANICAL DETAILS

DESCRIPTION (To be specified by the supplier, if any variation)				
Dimension (In mm)	in is and	* (10 be specified by		
Net Weight (In Kgs.)	•	* Optional tiens (if any, verder stock		
Type of Packing		Recommended Spares along values *		
Case Dimension (In mm)	antanii Latanii	* the distance the property of		
Gross Weight (In Kgs.)	a Hank	* Optional: To be quoted by the bidder		
Foundation details (If required)	-	* 7.05 % Saintry Modes*		







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LIST OF ANCILLARY / ACCESSORIES / OPTIONAL ITEMS ANNEXURE - IX :

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 indicated during pre-bid meeting)

Optional: To be quoted by the bidder with specification

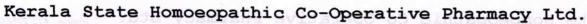
TDS & Salinity Mode*

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









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ANNEXURE - X : TRAINING REQUIREMENT

- Training to all concern of M/s. HOMCO, Kerala for the Installation, commissioning, and validation of this lab item should be provided by vendor and training record will be documented.
- shall support client in execution of all the Qualification Phases.

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ANNEXURE - XI : APPROVED MAKES

Stainless Steel Sheet & Pipe: Tata / Jindal	:	Training to all concer
PLC: Siemens / Allen Bradely / Delta	:	documented.
HMI: Siemens / Allen Bradely / Delta / Exor	ė	shall support client in
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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TERMS AND CONDITIONS

Delivery Period	2 97	Sr. Document to
Payment Terms	:	As mentioned in tender.
Packaging and forwarding	io ja	By Vendor 1990 pris apiesa 1
Un-loading at site	:	By vendor /Supplier ARTA
Z sets		(If required, help for the arrangements
2 545		of unloading can be done by client)
2 sets		Installation in position by the vendor under the client's supervision
Excise / Taxes /GST	:	* spinwerti gili gamigi u ila o
Material for Trial arrangement	:	* (To be arranged by client)
Installation and Commissioning	:	By Vendor (1919) audistolia(1919)
Submission of documents and drawings		9 - Warranty /- Guarantes -
Response to URS and submission of quotation	neits	Within 1 week mon lie to paul 10 r
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 - XII

DOCUMENTATION

Sr. No.	Document to be supplied	Qty	Remarks
1	Design and operational qualification	2 sets	Pockeding sols
2	SAT/FAT procedures procedures	2 sets	18 gariosel-aU
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 and one an	2 sets	E and the receipted
8	Calibration certificates V v8	2 sets	Installation ar
9	Warranty / Guarantee aprilves to be admen	2 sets	noissimiss
10	List of all components with referencing	2 sets	Lorsenoges
11	Civil foundation drawings		O DESERVATE
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	Caralogue, Er
18	Test Certificates of all material of construction	2 sets	rstracho yna
19	Test Certificates of the software used in machine control / monitoring system.	2 sets	* To be specif



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ANNEXURE - XIV : 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.	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	:	
Equipment and Code No.	:	Digital Vernier Caliper
Name of work	:	Supply, & Validation of cGMP model Digital Vernier Caliper Equipment at M/s. HOMCO – Kerala
Ref. No.	:	area and an altraca area hashinggo and are r
Date		
Enclosures	:	
Quantity		1 No.



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DIGITAL VERNIER CALIPER

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

	DES	CRIPTION
(To	be specified by the	ne supplier, if any variation)
Scope	:	Supply of cGMP model Digital Vernier Caliper at M/s. HOMCO –Kerala
Model	:	*
Туре		*
Range	A-	0 - 150MM *
Resolution		0.01mm *
Display		Large *
Units	ŧ	mm / inch *
Battery		1 x LR 44 *





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ANNEXURE - II & III : CGMP FEATURES AND OPERATIONAL

FEATURES

(То		SCRIPTION the supplier, if any variation)
мос	:	Hardened Stainless Steel of Grade 4CR13*
Finish		ağe .

- Should be provided with large display. *
- Should have perfect jaws and grooves. *



