



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.

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

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

Phone : 0477 2258012

:0477 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-FIRST FLOOR
Equipment and Code No.	:	DIGITAL pH Meter
Name of work	:	Supply, Installation, Commissioning & Validation of cGLP model microprocessor based Digital pH meter at m/s. HOMCO -Kerala
Ref. No.	:	
Date	:	
Enclosures	:	
Qty.	:	1 No.



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DIGITAL PH METER

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 Microprocessor based Digital pH meter along with connecting accessories, cables etc. at M/s. HOMCO –Kerala
Model	:	*
pH Range	:	-2.000 to 20.000 pH *
Resolution	:	Selectable 0.1, 0.01 pH*
Accuracy	:	± 0.01 pH *
Temperature Range	:	-30°C to 100 °C*
Calibration	:	5 points. Auto/manual*
Mv Range	:	±1999.9mv*
Resolution	:	0.1 mv*
Accuracy	:	±0.4 °C*
Sensor	:	Semi-conductor Type*
Display	:	LCD with Backlight*
Data Entry	:	By 5 soft keys*
Storage	:	500 samples with Calibration Data*
Real Time Clock	:	24 hours mode with date*
Printer interface	:	Rs232*
Additional Requirements	:	

1,Toughened glass -body refillable pH electrode with built in ATC for high viscous sample like creams
2) Bench meter with stand
3)Warranty for meter should be 3 years
4) Should be supplied with 250ml each g with pH 4.01, 7.00, 10.01 NIST certified buffers
5) Should be with security password setting



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6) Should be with offset and slope display

7) Should be 21 CFR compliant

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

ANNEXURE – II & III : cGMP FEATURES AND OPERATIONAL FEATURES

DESCRIPTION

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

MOC	:	*
Finish	:	*

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

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	:	*
PLC and HMI details	:	*
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	:	*

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.

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DESCRIPTION

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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

DESCRIPTION

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

Wherever possible , warning symbol should be provided. *

Electrical wiring must be concealed. *

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

ANNEXURE - VI : 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**

ANNEXURE - VII : 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 - VIII : 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.

ANNEXURE - IX : APPROVED MAKES

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

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ANNEXURE - X : 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 - XI : 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>		

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ANNEXURE - XII

ABBREVIATION

URS	User Requirement Specification.
HOMCO	kerala State Homeopathic Co-operative Pharmacy Ltd.
DQ	Design Qualification
IQ	installation Qualification
OQ	Operational Qualification
PQ	Performance Qualification
SS	Stainless Steel
RHS	Right Hand Side
MOC	Material of Construction
KW	Kilo Watt
HP	Horse Power
RPM	Rotation Per Minute
FLP	Flame Proof
cGMP	Current Good Manufacturing Practices
O&M	operation and Maintenance
GA	General Arrangement
SLD	Single Line Diagram
HOD	Head of Department
QA	Quality Analysis
MRP	Maximum Retail Price
NMT	Not more than
VFD	Variable frequency drive
FAT	Factory Acceptance Test
SAT	Site Acceptance Test



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