



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-FIRST FLOOR
Equipment and Code No.	:	Fuming Hood
Name of work	:	Supply, Installation, Commissioning & Validation of cGLP model Fuming Hood 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 / 2631 4010, Email : infoknack@gmail.com





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FUMING HOOD

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 Fuming Hood along with connecting accessories, cables etc. at M/s. HOMCO -Kerala
Model	: *
Design Structure	: Aerodynamic, Floor Mounted. *
Over All Fume Hood Dimension with Base Cabinet (mm)	: 1200 X 762 X 2400 (L x D x H). *
Base Cabinet Dimension (mm)	: 780 X 625 X 700 (L x D x H). *
Inside Fume Hood Working Volume (mm)	: 915 mm X 625 mm X 1150 mm. *
Maximum Sash Opening	: 520 mm (Vertical rising counter-balanced Sash). *
Centrifugal Blower	: PP + FRP high efficiency remote blower Consisting of Continuous Rating Motor and Chemical Resistant Impeller. *
Noise Level	: <70db at 1 meter from Fume Hood. *
Airflow Type	: Low Constant Volume (For A.C. Environment). *

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



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ANNEXURE - II & III : CGMP FEATURES AND OPERATIONAL FEATURES

DESCRIPTION	
(To be specified by the supplier, if any variation)	
MOC	<p>External Body Structure:</p> <p>Anti-Corrosive Powder Coated, pre-treated with 8 Tank Chemical Processes and Powder Coated with Highly Chemical Resistant Epoxy Colors Having Dry Film Thickness Of 70 To 80 Microns. Should Pass All Conformity Performance Tests as Per IS Standard. *</p> <p>Internal Body Structure:</p> <p>Chemical (Especially Strong Acid Like H2SO4 And HNO3) Resistant & Heat Resistant, Fire Retardant, Smooth Finish, Easily Cleanable Panels. *</p>
Finish	:
<p>The machine to consist of:</p> <ul style="list-style-type: none"> ➤ Should have easily open able hinged top Panel for Easy Access to flow Control valve and electrical lighting fixtures for maintenance. * ➤ Chemical resistant splash & spillage proof should be made by jet black granite. (2cm Thickness). * ➤ Should have Oval/Round shaped 100mm X 200mm sink for drainage with water tap. * 	

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



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DESCRIPTION	
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	<p>➤ Sash Should be vertical rising counter-balanced with Toughened Float Glass (6mm Thick). *</p> <p>➤ Shutter should be clear openable with fail safe locking arrangement to prevent sudden breakdown of shutter. *</p>
Wet & Dry Service Fittings	: Remotely operated color-Coded brass needle valves for fine control over utilities total 4nos service valves with PU plumbing with 6mm internal Dia. withstands up to 5kgf Pressure. <ul style="list-style-type: none">• For Raw Water – 1 no. *• For Nitrogen – 1 no. *• For Vacuum - 1 no. *• For Compressed Air – 1 no. *
Lighting	: Fluorescent light with Vapor-Proof fitting for proper illumination. 40 Watt - 1no. *
Electrical Utilities	: <ul style="list-style-type: none">• Five nos. electrical sockets and switch. *• Light switch on front facia. *• cables & wires 'fire retardant' grade on right hand side. *
Cable Entering Port	: Easy access of cables from fume hood to electrical sockets. *
Maintenance Ports	: Openable top panel for easy maintenance of tube light and flow control valve, triangular service panel for maintenance of utility valves and tubing. *

* 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)	
Chemical Storage Base Cabinet	: <ul style="list-style-type: none">• Internal special chemical resisting material lining to the cabinet walls two exhaust ports connected to the fume hood exhaust system internally. *• Complete powder coated. rigid structure to support fume hood. *• One removable horizontal partition to store chemicals. *• Double skin hinged doors with hinges made of polyamide for chemical resistance and hassle-free operations in the corrosive lab atmosphere. *• PP trays for chemical storage. *• Fully openable back panels for service line access. *
Apparatus Holding Grid	: Should have a grid made up of MS powder coated rod (dia. 12.7mm) to hold the apparatus which should cover the entire length of the fume hood and built-in at fume hood backside, installed at the distance of 150mm from backside of fume hood. *
Level Adjusting Screws	: Should made of pp bolts to adjust the fume hood level by ± 10 mm. *

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



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DESCRIPTION

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Centrifugal Blower	:	Silent PP + FRP high efficiency remote blower, should consist of continuous rating motor and chemical resistant impeller Which should be dynamically balanced. *
Ducting	:	<ul style="list-style-type: none">• Chemical resistant PP 2.5kg rigid & flexible duct work from fume hood to exhaust stack point with weather proof canopy. *• Total ducting with horizontal, vertical members, flanges, bends, bracketed support and gooseneck exhaust stack duct via 177mm. *
Air Suction Capacity	:	600 cfm conforming to international phase velocity norms and as per safe fume hood airflow pattern. *

* 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*
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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(J. Anas)
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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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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. Ansan)



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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	: --

* 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.


(I. Anand)



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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 confirm by the supplier as per their equipment design



(J. Ansoori)



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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



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

DESCRIPTION

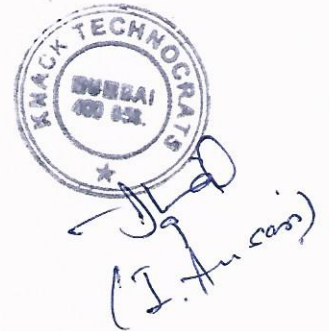
(To be specified by the supplier, if any variation)

- 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 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, 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.



J. Ansan
(J. Ansan)



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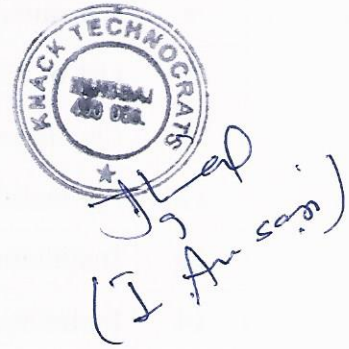
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ANNEXURE - XI : APPROVED MAKES

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

* To be specified and confirm 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>		

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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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(J. Anson)
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