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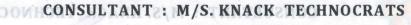
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Supplier's Copy

USER REQUIREMENT SPECIFICATION

MO	RIPI		
Contact Person	ddns	(To be specified by the	
y, Installation, Commissioning & Va	Suppl		Scope
LP model Melting / Boiling accessories, cables			
Contact Details	M/s.		
Department	: *	QCL- First Floor	Туре
temperature + 15°C to 300°C*	Room	Melting & Boiling	Temperature Range
Equipment and Code No.	1	I J	Accuracy
	Bette 0.4°C 1°C/	Supply, Installa Validation of cGL	tion, Commissioning
* * * * * * * * * * * * * * * * * * *	Bette 0.4°C 1°C/n temb	Supply, Installa Validation of cGL Point Apparatus a	tion, Commissioning P model Melting & Boili
* * * * * * * * * * * * * * * * * * *	Bette 0.1°C 1°C/n temps Tiret	Supply, Installa Validation of cGL Point Apparatus a	tion, Commissioning P model Melting & Boiling t M/s. HOMCO -Kerala
* * * * * * * * * * * * * * * * * * *	Bette 0.1°C 1°C/1 teme Tires	Supply, Installa Validation of cGL Point Apparatus a	tion, Commissioning P model Melting & Boiling t M/s. HOMCO -Kerala
* * * * * * * * * * * * * * * * * * *	Bette 0.1°C 1°C/n temps Tiret One	Supply, Installa Validation of cGL Point Apparatus a	tion, Commissioning P model Melting & Boiling t M/s. HOMCO -Kerala
* * * * * * * * * * * * * * * * * * *	Bette 0.1°C 1°C/n temps One Lengt	Supply, Installa Validation of cGL Point Apparatus a	Accuracy tion, Commissioning P model Melting & Boiling t M/s. HOMCO –Kerala No. of Melting Point D No. of Boiling Point D Value of Boiling Point D



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Boiling



Kerala State Homoeopathic Co-Operative Pharmacy Ltd.

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Name of the Company

MELTING / BOILING POINT APPARATUS

ANNEXURE - I : BASIC DETAILS OF THE MACHINE

	DESCRIPTION						
Annual representation of the second	(To be specified by the supplier, if any variation)						
	Scope		Supply, Installation, Commissioning & Validation of cGLP model Melting / Boiling Point Apparatus along with connecting accessories, cables etc. a M/s. HOMCO –Kerala				
	Model	-:-	*				
	Type Square Type	-130	Department :*				
	Temperature Range	•	Room temperature + 15°C to 300°C*				
	Accuracy	•	Better than 0.5°C*				
pning	Temperature Resolution	(q i 2	Name of work * .0°1.0				
	lation of cGLP model Melting Rate Apparatus at M/s. Paparatus at M/s.		1°C/minute or 0.5°C/minute (Starts from set temperature -10°C) *				
-	No. of Melting Point Determination		Three Samples of Melting Point*				
Parameter and the second secon	No. of Boiling Point Determination	•	One Sample of Boiling Point*				
	Capillary	1	Length - 125mm; Diameter 1.4 - 1.6mm*				
	Display		240 x 128 Graphic LCD *				
	Printer	•	Compatible with DOT matrix printer *				
	Input	ÞM.1	Tactile Keyboard + QWERTY keyboard.*				

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

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ANNEXURE - II & III : CGMP AND OPERATIONAL FEATURES

(To be NOITPINDEED Supplier, if any variation)

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

MOC

The machine should consist of:

- Melting point of three samples should be determined at the same time. *
- > Boiling point should be determined for one sample. *
- Graphical representation should be with Time V/S Temperature. *
- Memory should store for 99 product names with their expected Melting Point. *
- Memory should store for 25 product names with their expected Boiling Point. *
- > Should be provision for Unknown / New Product evaluation. *
- > Instrument should be validated with known Melting Point samples. *
- > 8 Operators names should be stored with Individual Password. *
- > Date and Time should be Password protected. *
- Memory should store around 100 test records. *
- > Online and off line printing facility with date and product selection should be incorporated. *
- Selection of stirrer speed should be through keyboard. *
 - Facility should be for customize test reports with user Company's name and Instrument number. *
 - Instrument should have camera and colour monitor to observe Melting Point with ease. *

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

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ANNEXURE - IV : ELECTRICAL DETAILS

	DESC	RIPTION
		supplier, if any variation)
Standard Operating Frequency	ene ye	50 Hz
Standard Operating Voltage		230 / 415V*
Total power consumption		The machine should consist of:
Motor Details with rpm	:	Melting point of three samples st *
Gear Box Details (If any)	:	> Boiling point should be determin *
PLC and HMI details	:	Graphical representation should *
VFD details (If any)		> Memory should store for 99 prod
Tower lamp		Memory should store for 25 prod *
Starter * 2010000000000000000000000000000000000		* Should be provision for Unknown *
Major Cabling details		hts ed blunds semen soots and 9 %
For Main supply (In client's scope)	:	A Date and Time about the Passwo
For Main drive motor		* Nemons erote bluorie vromeM *
End connection details	Halling to	MCB or Socket should be with equipment
Earthing requirement	:	Arrangement should be with system
An Isolator Circuit breaker same and	1	To be supplied with machine at power supply in point of appropriate capacity by vendor. *
Cable length with equipment		Instrument number. * *

Any other detail not mentioned above, also to be included. bloods assumed as

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 designer.



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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. *

quipment should indicate fault through audio / visual signal with details on Control panel

- 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

Wiring between Panel MOITGISSED should be in the Scope of Vendor. The exact

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

The equipment should be provided with motor overload safety relay. * on and the same of 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) *

the date of Installation. *

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. * 100 to will be provided.

Electrical wiring must be concealed*

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

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ANNEXURE - VI UTILITY REQUIREMENT

			scription the supplier	r, if any variation) resem to show	
Vacuum	:	**		Use of Lubricants	•
	e and locati	brO e si	* yrani edfy the pip	All contact parts should be easil Drain points: Vendor should sp per their system's drain require	
If any other utility upo 1	as per thei	1911	by the supp	* To be specified and confirm I	

* 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

	DES	CRIPTION	
(To be specifie	d by tl	ne supplier, if any variation)
Mode of machine cleaning is it reliqu	ith ę su	(To be specified '*/	
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

ecified and confirm by the supplier as per their equipment's design ant with pressure and flow rate along with any valve, pipe, nozzles size

and scope of supply.







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ANNEXURE - VIII : MECHANICAL DETAILS

(To be specifie	110	SCRIPTION he supplier, if any variation)	
Dimension (In mm)		*	
Net Weight (In Kgs.)	129	*	1400-1601 (1400-1600-1600-1600-1600-1600-1600-1600-
Type of Packing		(10 be specified by	
Case Dimension (In mm)		Optional Items (If any, Vendor shoult *	
Gross Weight (In Kgs.)		> If any items required but not include: * rate and quantity * (And it can be in	
Foundation details (If required)	. 1	* Details of Sought out components to	

* 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

Dimension (In mm)

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.

ther components, not mentioned above, to be specified by the vendor.

e Component Makes should match with the Approved Makes listed

ive. 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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ANNEXURE - XI APPROVED MAKES

Stainless Steel Sheet & Pipe: Tata / Jindal	:	*
PLC: Siemens / Allen Bradely / Delta		of this lab item should
HMI: Siemens / Allen Bradely / Delta / Exor		> Vendor shall support
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.

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









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ANNEXURE - XII

DOCUMENTATION

Sr. No.	beilqque do trendent to be supplied As mentioned in tender.	Qty	Remarks Payment Ten
1	Design and operational qualification	2 sets	Packaging and
2	SAT/FAT procedures below v8	2 sets	ts gnibsol-nU
3	Operation manual 11 (December 11)	2 sets	
4	Maintenance manual	2 sets	
5	Spare parts manual	2 sets	
6	All engineering drawings	2 sets	Excise / Taxe
7	gement * (To be streamurtsni to tail	2 sets	Material for T
8	Calibration certificates V va : gninolasi	2 sets	Installation a
9	Warranty / Guarantee spniwsrb bns sinen	2 sets	Submission
10	List of all components with referencing to noise indus	2 sets	Response to
11	Civil foundation drawings	2 sets	Submission o
12	Pre installation requirements	2 sets	specification
13	Installation requirements	2 sets	b delssimens
149	Installation manual	2 sets	Drawlings / d
15	Technical literature, data sheets and equipment catalogues	2 sets	The supplier
16	DQ, IQ, PQ documents.	2 sets	19444416-911
17	Calibration Report of all sensors, controllers, PLC, transmitters, indicators etc.	2 sets	Catalogue, Ed
18	Test Certificates of all material of construction	2 sets	Any other ten
19	Test Certificates of the software used in machine control /	2 sets	* To be specifi



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ANNEXURE - XIII

Delivery Per	iod	ballani		* Document to	-12
Payment Ter	Payment Terms		:	As mentioned in tender.	
Packaging a	nd forward	ing	catio	By Vendor rego bns ngised	1 1
Un-loading a	at site 2 S		•	By vendor /SupplierTAR\TAR	Σ
	2 sets			(If required, help for the ar	rangements
	2 sets	44		of unloading can be done by	
	2 sets			Installation in position by under the client's supervision	
Excise / Tax	es /GST			All engineering drawings *	
Material for	Trial arran	gement	:	* (To be arranged by client)	
Installation	and Comm	issioning	:	Calibration certifrobneV vB	8
Submission	n of docur	ments and drawings		Warranty / Guarantee	
Response to	URS and	submission of quotation	fetenc	Within 1 week no lis to fail	
	5125 7	unctional design		Within a week after order fin	alization
specification	and scrie	matic drawings		Pre installation requirements	C.F.
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	g 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 alongwith quotation.

Any other terms, not mentioned above, also to be specified.

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

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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
		1	

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



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