

All-India Institute of Medical Sciences
Ansari Nagar, New Delhi-29
(RESEARCH SECTION)

Ref. No. 36/Prop./Biotechnology/RKS/18-19/RS

Dated: 24.01.2019

**Subject: Purchase of CO2 Incubator with accessories for the Deptt. of Biotechnology,
AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.**

The request has been received from Dr.Rupesh Kr.Srivastava, Assistant Professor, Deptt. of Biotechnology,AIIMS to purchase the subject item from **M/sEmpirical Scientific, Authorized distributors (Authorized Dealer M/s.SciMed(Asia) Ptd Ltd.) (Mfg.M/s.PHC Corporation)**. on proprietary basis. The proposal submitted by **M/sEmpirical Scientific** and Performa Invoice and Departmental PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 36/Prop./Biotechnology/RKS/18-19/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **08/02/2019 upto 12:00 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

STORES OFFICER (RS)

Encl: Related documents enclosed.

- 1. PAC Certificate enclosed.**
- 2. Performa Invoice**

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029

RESEARCH SECTION

PROPRIETARY/SPECIFIC BRAND GOODS CERTIFICATE

1. Item/Type/Model No. required alongwith specification. *CO₂ Incubator (MODEL No. MCO-170 AICUVH)
Specifications Enclosed*
2. Is the item a spare parts attachment or accessory for an existing equipment. *NO*
3. Name of the manufacturers/supplier of the item proposed by the Indentor. *PHC Corporation (BRAND: PHCbi, Japan)*
4. Are they sole manufacturers/sole distributors of the item. *Yes*
5. Is there any other item with similar/ equivalent specification available in the market to meet the job requirement envisaged. If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantages/cost effectiveness of the recommended item from these offered by other. *NO*
6. What were the efforts made to locate alternative source of supply or use other substitutes. *Verification in Catalogs and website of other manufacturers.*
7. Why open/limited tender can't be resorted to, for locating alternative source. *Technology is manufactured by single manufacturer*
8. Are the proprietary items certifying that the rates are reasonable or not. *Yes, the rates are reasonable*
9. Any other justification for procuring item from single source. *We have not found any model with same technology and functional features*

Signature of Indentor
(Demanding Officer)

[Signature]
Dr. SHUPENDRA KUMAR VERMA
Assistant Professor
Dept. of Biotechnology

I certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of supply is definitely known/the specified brand proposed was advantageous in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in this particular case.

(Strike out whichever is not applicable)

[Signature]
Dr. SHUPENDRA KUMAR VERMA
Assistant Professor
Dept. of Biotechnology
Institute of Medical Sciences
New Delhi-29

COUNTERSIGN
(Head of the Department)

[Signature]
Dr. RUPESH KUMAR SRIVASTAVA
Assistant Professor

Anushree Gupta
10/11/19
Dr. Anushree Gupta
Assistant Professor, Dept. of Biotechnology
Institute of Medical Sciences
New Delhi-29

SPECIFICATIONS OF CO2 INCUBATOR (WITH ACCESSORIES)

- **CO2 sensor:** Should have a combination of dual **infrared** CO2 sensor and **PID** (Proportional, Integrated and Differential) control with Recovery time ≤ 3 minutes
Relative Humidity Control: Should have gentle air flow through duct, a removable water pan combined with an independent heater, at the base of the incubator for maintaining humidity. Humidifying pan should be easily removable & should have an optical water level sensor to warn of a low water level.
- Should have **option for programmable decontamination with continuous UV sterilization** of air & humidity source (UV lamp should be completely isolated from cell cultures, decontamination method should not trap contaminants inside the incubator or require temporary removal of any components)
- **Walls & shelves:** Should be of copper-stainless steel alloy & should have the ability to kill mycoplasma
- **Interior chamber** should have fully rounded corners
- **Direct Heat & Air jacket system** with three sources of heat – sides, door and independent bottom heaters, all of which should be located outside the chamber
- Should have **Color LCD Touch Panel Display** for full control of different protocols
- Should have standard **USB port** for convenient data transfer for a period of 1.5 months using 2-minute intervals
- Should have **Automatic Electric Door Lock**
- Should have Low profile, **stackable** design
- Should have user friendly door-mounted control panel
- Interior Volume: At least **160 L**
- Temperature Range: **5°C above ambient temperature to +50°C**
- Temperature Uniformity: $\pm 0.25^\circ\text{C}$, Temperature Controllability: $\pm 0.1^\circ\text{C}$
- Chamber humidity: $95 \pm 5\% \text{RH}$
- CO2 range: 0 to 20%, CO2 controllability: $\pm 0.15\%$
- Alarm system: High/low temperature, CO2 level, door & UV lamp failure, independent overheat protection
- Shelves: 4
- Should have field reversible door
- 30mm diameter access ports
- Should have programmable **UV Decontamination System** to prevent contamination without affecting cell cultures in-vitro
- Should also have **High Speed Decontamination System using vaporized H2O2** for time saving and documented chamber decontamination


Dr. Rupesh K. Srivastava
Assistant Professor & PI
Department of Biotechnology
AIIMS, New Delhi

डॉ. रुपेश कुमार शrivastava
Dr. RUPESH KUMAR SRIVASTAVA
सहायक प्रोफेसर (Assistant Professor)
जीए बीओटेक्नोलॉजी विभाग
Dept. of Biotechnology
आर.ए.पी.एस. नगर, नई दिल्ली-29
All India Institute of Medical Sciences, New Delhi-29


Dr. Jaya S. Tyagi
Professor and HOD
Department of Biotechnology
AIIMS, New Delhi


डॉ. जया शिवसुवामी त्यागी
Dr. Jaya Shivswami Tyagi
समस्त जीए बायोटेक/प्रोफ. & हेड
जीए बीओटेक्नोलॉजी विभाग/Dept. of Biotechnology


Dr. Bhupendra K. Verma
Assistant Professor
Department of Biotechnology
AIIMS, New Delhi


डॉ. भूपेन्द्र कुमार वर्मा
Dr. BHUPENDRA KUMAR VERMA
सहायक प्रोफेसर (Assistant Professor)
जीए बीओटेक्नोलॉजी विभाग
Dept. of Biotechnology
आर.ए.पी.एस. नगर, नई दिल्ली-29



Department of Biotechnology
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
Ansari Nagar, New Delhi-110 029, India

Dr. Rupesh K. Srivastava, PhD, MBA
Assistant Professor
Room # 202

Tel: 011-26593548 (Direct)
Telefax: 011-26588491 (Office)
E-mail: rksrivastava@aiims.edu
rupesh_srivastava13@yahoo.co.in

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the technical specification of the proposed item "CO2 incubator with accessories" are of generalized/broad parameters and do not favor any particular firm.

(Dr. Rupesh Kr. Srivastava)
Assistant Professor
Department of Biotechnology
All India Institute of Medical Sciences,
New Delhi-110024
Mob. 09179567399



Date 21/12/2018
Ref. No. ES/MCO170AICUVH/AIIMS/2018/2112

To,
Dr. Rupesh K. Srivastava
Department of Biotechnology
AIIMS
New Delhi-110029

SUB: QUOTATION FOR CO2 INCUBATOR (QTY-1)

Dear Sir/Ma'am,

With reference to your requirement for CO2 Incubator, we are pleased to submit herewith, our offer for the same from **PHCbi, Japan** formerly **Panasonic** on behalf of our principals, **Scimed (Asia) Pte Ltd**

CO2 Incubator Capacity-165L litres(Qty-1)

Make: PHCbi, Japan formerly Panasonic

Model.No-MCO-170AICUVH

We understand that creating successful cell cultures requires a CO2 incubator that offers the highest levels of precision, security and ease of use.

Our latest IncuSafe MCO-170AIC CO2 Incubators with innovative technologies offer outstanding quality in performance, maximise cell culture productivity and provide optimum results and reproducibility. The MCO-170AICUVH has a built-in UV lamp and a H2O2 Decontamination board and Electric door lock with password.

Features:

- DHA Direct heat and air jacket system
- Dual IR CO2 sensor
- InCuSaFe® copper-enriched stainless steel interior
- Standard Safe-Cell UV® with NEW increased UV lamp life
- Standard electric door lock with password
- Integrated shelf supports
- Full colour LCD touch screen
- USB port
- H2O2 Decontamination board



Benefits:

- Improved insulation performance and lower running costs
- PID Control of CO2 and temperature

- Dual IR CO₂ sensor
- Optimun protection for your cell cultures
- More space for more cultures
- PHCbi's H₂O₂ vapour sterilisation cycle reduces downtime to less than 3 hours for complete, validatable decontamination for increased productivity.

Product Information:

- Active Background Decontamination
- Dual Heat Sterilisation
- Exceptional CO₂ and O₂ recovery times
- InCusaFe Construction for Germicidal Protection
- Zirconia sensor
- Direct Heat and Air Jacket system
- Dual IR Sensor
- H₂O₂ decontamination process
- Patented SafeCell UV lamp

Patented SafeCell UV lamp:



The SafeCell UV lamp in IncuSafe incubators plays a pivotal role in continuous decontamination. The figure below shows the summary of four tests on separate strains of mycoplasma using PHCbi incubators. It can be seen that the lamp in the UV range has a much greater decontamination effect on these bacteria than decontamination lamps emitting at visible wavelengths.

To ensure the elimination of any airborne contaminants that may enter the chamber, the isolated narrow-bandwidth, ozone-free UV light (located at the base of the chamber) automatically switches on for a specified period after each incubator door opening. Water-borne organisms in the humidity water reservoir are eradicated in the same way, ensuring the security of any active cell cultures.

H₂O₂ decontamination process:



The hydrogen peroxide vapour (HPV) decontamination process, used in MCO-230AIC IncuSafe CO₂ Incubator and 170 range of CO₂ and Multigas Incubators, permits quick turn around of the cell culture incubator between processes, even when a complete, validated decontamination is required. Low temperature hydrogen peroxide in biological safety cabinets is a widely used alternative to other decontamination procedures, especially in the pharmaceutical industry.

PHCbi's H₂O₂ system limits incubator downtime to less than three hours for each total chamber decontamination. Despite this increased speed, the high levels of safety needed to meet regulatory requirements are reliably retained. The quick turnaround of this process means that the equipment is out of action for substantially less time than similar direct heat decontamination systems.

The H₂O₂ decontamination process follows several steps. Once the cycle is activated, the door is automatically locked and hydrogen peroxide goes through vaporisation. An airflow system circulates interior air to ensure all surfaces come into contact with the vapour. After this an

P.

ultraviolet (UV) light switches on for 90 minutes, causing the H₂O₂ vapour to decompose into water vapour and oxygen. Once the cycle is complete, the door automatically unlocks. When **hydrogen peroxide decontamination** is employed, all the incubator's interior components, such as shelves, shelf brackets and the humidity tray, are decontaminated in situ. This eliminates the need to remove and replace them for any additional cleaning. In addition, critical parts such as the CO₂ sensor do not need to be removed during the process nor recalibrated afterwards, contributing to the reliable operation of the system. The unique design of PHCbi incubators ensures the use of the decontamination system with no impact on adjacent equipment or the environment.

SPECIFICATIONS:

External Dimensions (W x D x H)	620 x 730 x 905 mm
Internal Dimensions (W x D x H)	490 x 523 x 665 mm
Volume	165 litres
Net Weight	80 kg
Temperature Control Range & Fluctuation	AT +5 – +50, ±0.1 °C
Temperature Uniformity	±0.25 °C
CO ₂ Control Range & Fluctuation	0 – 20, ±0.15 %
Humidity Level & Fluctuation	95, ±5 %RH
Sterilisation Method	H ₂ O ₂ Decontamination
Temperature Sensor	Thermistor
CO ₂ Sensor	Dual IR
Exterior Material	Painted Steel (rear cover not painted)
Interior Material	Stainless Steel Copper-Enriched Alloy
Insulation Material	Extruded polystyrene
Heating Method	Direct Heat & Air Jacket System
Outer Doors	1
Outer Door Lock	Standard
Field Reversible Door	Included
Inner Doors	1 gastight - made of tempered glass
Shelf Dimensions (W x D x H)	470 x 450 x 12 mm
Max. Load Per Shelf	7 kg
Max. Shelf Capacity	10
Access Port	1
Access Port Position	Rear Upper Left
Access Port Diameter	30
Power Failure	R
Out of Temperature Setting	V-B-R

Handwritten signature or mark

High Temperature	V-B-R
Out of CO2 Setting	V-B-R
Door Open	V-B
Power Supply	Local
Frequency	Local
Noise Level	29 dB

Optional Accessories:

Safe Cell UV system	Standard
H2O2 Decontamination board	Standard
Electric door lock with password	Standard
H2O2 vapour generator	MCO-HP-PW
H2O2 reagent	MCO-H2O2-PE
Double stacking bracket	MCO-170PS-PW
Stacking plate	MCO-170SB-PW
CO2 gas pressure regulator	MCO-100L-PW
Automatic CO2 cylinder changeover system	MCO-21GC-PW
Semi-automatic one point gas calibration kit	MCO-SG-PW
InCasaFe shelf	MCO-170ST-PW
InCasaFe half tray system	MCO-25ST-PW
Roller base	MCO-170RB-PW

Optional Communication System:

Ethernet interface (LAN)	MTR-L03-PW
Digital interface (RS232C/RS485)	MTR-480-PW
Analogue interface (4-20mA)	MCO-420MA-PW

Thank You
For Empirical Scientific
Sushil Singh



S. No	Model No.	Description	Qty	Unit Price(INR)	Total Price(INR)
1	MCO-170AICUVH	CO2-Incubator Make: PHCbi, Japan	1	Rs.5,30,000.00	Rs.5,30,000.00
				Unit Price :	Rs. 5,30,000.00
				GST@5% :	Rs.26,500.00
				Total Unit Price (FOR- AIIMS, New Delhi):	Rs.5,56,500.00
Rupees Five Lacs Fifty Six Thousand Five Hundred Only.					

Note: Above mentioned FOR prices are valid only if the institute provides a valid CDEC & DSIR along with necessary authorizations to get the shipment cleared from customs.

Optional Accessories					
S. No	Description	Qty	Unit Price(INR)	Total Price(INR)	
1	H2O2 Generator Kit	1	Rs.30,000.00	Rs.30,000.00	
				Unit Price :	Rs. 30,000.00
				GST@5% :	Rs.1,500.00
				Total Unit Price:	Rs.31,500.00
Rupees Thirty One Thousand Five Hundred Only					

Thank You
For Empirical Scientific
Sushil Singh

For Terms and Conditions please refer next page.



Terms & Conditions:

VALIDITY	180 Days
WARRANTY	3-Years warranty after installation.
CMC	2-Years after warranty.
DELIVERY PERIOD	8-10 Weeks
PAYMENT	Through Cheque/DD/NEFT/RTGS Transfer in favour of M/s. Empirical Scientific, New Delhi
BANK DETAILS	Beneficiary : Empirical Scientific Account No : 662905600353 Bank Name : ICICI Bank Ltd Branch : Delhi Janakpuri, New Delhi IFSC Code : ICIC0006629 Account Type : Current
OUR PAN :	AAFFE9836M
GSTIN :	07AAFFE9836M1ZU
COUNTRY OF ORIGIN	Japan
COUNTRY OF SHIPMENT	Singapore

CMC Charges	Per Unit Price (INR)	Total Price (INR)
1 st Year	Rs. 20,000/-	Rs. 20,000/-
2 nd Years	Rs. 20,000/-	Rs. 20,000/-
Total Price		Rs. 40,000/-
GST@18%		Rs. 7,200/-
Grand Total		Rs. 47,200/-
Rupees Forty Seven Thousand Two Hundred Only		

Thank You
For Empirical Scientific
Sushil Singh





PHC Corporation

8-5 Nishishimbashi, Minato-ku, Tokyo
105-8433, Japan
Tel. +81-3-5408-7290
www.phcd.com

Proprietary Certificate

PROPRIETARY CERTIFICATE FOR PANASONIC CO2 INCUBATOR, MODEL MCO 170AIC (UVH)

We are please to certify that Panasonic's CO2 Incubator model MCO 170AIC (UVH) is a proprietary product of Panasonic, Japan. We incorporate:

- (a) Proprietary Single beam Infra-Red (IR) Sensor with Dual Wavelength measurement. This proprietary technology offers unprecedented control accuracy and stability by simultaneously measuring two wavelengths for continuous auto zero calibration. This gives ultra fast recovery without over-shoot and accurate CO2 averages during periods of frequent incubator access with multiple door openings
- (b) Proprietary UV Sterilization to provide continuous contamination control with zero downtime. This proprietary technology decontaminates conditioned air and humidity reservoir to prevent contamination without affecting cell cultures in-vitro
- (c) Proprietary copper enriched stainless steel interior and inventory components that provide natural germicidal protection without rust or corrosion. This proprietary technology eliminates contamination sources and eliminates the effects of airborne contaminants introduced through normal use
- (d) Vaporized H2O2 Decontamination System for high speed and documented chamber decontamination. This proprietary technology gives full decontamination including all in-situ decontamination of all interior components without the need for time consuming removal and autoclaving. There are no high heat emissions, and thereby no need to remove sensors too

Your Sincerely,

Marketing Manager
Asia business Development Group, Marketing Department
Biomedical Division
PHC Corporation

PROPRIETARY ARTICLE JUSTIFICATION

No other make or model is acceptable for the following reasons:-

- (i) Please provide enough description so that it is comprehensible to the lay reader.
- PHCbi MCO-170AICUVH is designed to accommodate a range of diversified experimental requirements, it uses inCu safe copper-enriched stainless steel alloy interior surfaces to eliminate contamination sources and to mitigate the effect of airborne contaminants introduced through normal use.
 - SafeCell UV includes a programmable ultraviolet lamp, isolated from cell cultures, that decontaminates conditioned air and humidity reservoir water to prevent contamination without affecting cell cultures.
 - The proprietary single beam, dual detector infrared CO₂ system offers unprecedented control accuracy and stability by simultaneously measuring two wavelengths for continuous zero calibration, resulting ultra-fast recovery without overshoot and accurate CO₂ averages during periods of frequent incubator access with multiple door openings.
 - H₂O₂ high-speed decontamination system utilizing vaporized H₂O₂ offers time-saving and documented chamber decontamination with complete safety. Full decontamination process takes less than three hours, saving valuable time.
 - Unlike a high heat decontamination incubator, Panasonic's H₂O₂ decontamination cycle does not emit high heat and resulting in consuming very less energy.
- (ii) What are the unique functional features of the instrument that make the item proprietary.
- H₂O₂ Decontamination System
 - Single beam, dual detector infrared Sensor
 - SafeCell UV Lamp
- (iii) How are they important for scientific work.
- H₂O₂ system limits incubator downtime to less than three hours for each total chamber decontamination. Despite this increased speed, the high levels of safety needed to meet regulatory requirements are reliably retained. The quick turnaround of this process means that the equipment is out of action for substantially less time than similar direct heat decontamination systems.
 - UV Lamp Decontaminates conditioned air and humidity reservoir water to prevent contamination.
 - Mycoplasma stains doesn't grow inside.
- (iv) What steps have been taken to ascertain that these are not available with other manufacturers?
- Proprietary certificate from original manufacturer
 - Verification in catalogs and websites of other manufacturers



PROPRIETARY ARTICLE JUSTIFICATION

No other make or model is acceptable for the following reasons:-

- (i) Please provide enough description so that it is comprehensible to the lay reader.
- PHCbi MCO-170AICUVH is designed to accommodate a range of diversified experimental requirements, it uses InCu saFe copper-enriched stainless steel alloy interior surfaces to eliminate contamination sources and to mitigate the effect of airborne contaminants introduced through normal use.
 - SafeCell UV includes a programmable ultraviolet lamp, isolated from cell cultures, that decontaminates conditioned air and humidity reservoir water to prevent contamination without affecting cell cultures.
 - The proprietary single beam, dual detector infrared CO2 system offers unprecedented control accuracy and stability by simultaneously measuring two wavelengths for continuous zero calibration, resulting ultra-fast recovery without overshoot and accurate CO2 averages during periods of frequent incubator access with multiple door openings.
 - H2O2 high-speed decontamination system utilizing vaporized H2O2 offers time-saving and documented chamber decontamination with complete safety. Full decontamination process takes less than three hours, saving valuable time.
 - Unlike a high heat decontamination incubator, Panasonic's H2O2 decontamination cycle does not emit high heat and resulting in consuming very less energy.
- (ii) What are the unique functional features of the instrument that make the item proprietary.
- H2O2 Decontamination System
 - Single beam, dual detector infrared Sensor
 - SafeCell UV Lamp
- (iii) How are they important for scientific work.
- H2O2 system limits incubator downtime to less than three hours for each total chamber decontamination. Despite this increased speed, the high levels of safety needed to meet regulatory requirements are reliably retained. The quick turnaround of this process means that the equipment is out of action for substantially less time than similar direct heat decontamination systems.
 - UV Lamp Decontaminates conditioned air and humidity reservoir water to prevent contamination.
 - Mycoplasma stains doesn't grow inside.
- (iv) What steps have been taken to ascertain that these are not available with other manufacturers?
- Proprietary certificate from original manufacturer
 - Verification in catalogs and websites of other manufacturers
- (v) Add documentation to support above responses, if possible.
- Proprietary certificate from manufacturer

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PHCbi

2nd April, 2018

PHC Corporation
2-28-8 Shinjuku-ku, Nishi-Shinjuku, Tokyo
100-8433, Japan
Tel: +81-3-5469-7700
www.phcbi.com

Letter of Authorization

To whom it may concern,

This is to certify that SciMed (Asia) Pte Ltd (hereinafter referred to as "SciMed"), with an office at:

196 Pandan Loop #07-11
Pantech Business Hub
Singapore 128384

acts as an authorized distributor of PHCbi brand products, which have the same quality and performances as the ones under Panasonic brand manufactured by Panasonic Healthcare, Co. Ltd., the former company name of PHC Corporation, as listed in Annex A (hereinafter referred to as the "Products"), in the territory of Singapore, Malaysia, India, Bangladesh, Brunei, Cambodia, Myanmar, Nepal, Sri Lanka and Vietnam (hereinafter referred to as the "Territory") for a term of One (1) year from the date of this letter.

SciMed is hereby authorized, on our behalf, to provide purchasers in the Territory with technical and commercial services on all matters concerning the Products based on the effective agreement that SciMed and we have at the time.

In addition, SciMed is also authorized to conduct price negotiation in the Territory to enhance sales performance.

Yours faithfully,



Tomoki Koizumi
Senior Manager
Asia Business Development Group, Marketing Department
Biomedical Division
PHC Corporation

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PHC Corporation
2301 Sanderson, Charlotte, NC
28203, USA
Tel: +1-508-799-
www.phc.com

Annex A

The Products

The "Products" shall mean the following products:

- Ultra Low Temperature Freezers
- Biomedical -30C/-40C Freezers
- Pharmaceutical Refrigerators / Refrigerators with Freezers
- Blood Bank Refrigerators
- ✓ CO2 Incubators / Multi-gas Incubators
- Heated Incubators
- Cooled Incubators
- Plant Growth Chambers
- Portable Laboratory Autoclaves
- Vial Fillers



December 17, 2018

Letter of Authorization

To,
The Director
All India Institute of Medical Sciences, New Delhi
Ansari Nagar, New Delhi-110029

Subject: Authorization for PHCbI (Ex PANASONIC/SANYO) Biomedical Products

Dear Sir/Madam,

This is as per above subject, We SCIMED (ASIA) PTE LTD, A PHCbI (Ex Panasonic/Sanyo Biomedical) Sales Company for Asia hereby **authorize M/s Empirical Scientific, New Delhi** having their office as below:

M/s Empirical Scientific,
#203, Mahta Building,
Bhikaji Cama Place,
New Delhi 110066, INDIA

To submit a bid, negotiate supply and service PHCbI Brand products in your institute on our behalf. No company, firm or individual other than M/s Empirical Scientific is authorized to supply PHCbI brand Products in your institute.

Your's faithfully,
For SciMed (Asia) Pte Ltd




Dennis Shim
(Authorized Signatory)