

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

**Ref. No. 34/Prop./Biotechnology/RKS/18-19/RS**

**Dated: 24.01.2019**

**Subject: Purchase of -80 degree Refrigerator for the Deptt. of Biotechnology, AIIMS,  
New Delhi-29 on proprietary basis- Inviting comments thereon.**

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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. 34/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.  
- 80 DEEP FREEZER (MODEL NO. MDF 0702VX) - Specifications enclosed NO
2. Is the item a spare parts attachment or accessory for an existing equipment.  
PHC Corporation (BRAND: Phcbi, Japan)
3. Name of the manufacturers/supplier of the item proposed by the Indentor.  
YES
4. Are they sole manufacturers/sole distributors of the item.  
NO
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.  
Verifications in Catalogs and websites of other manufacturers  
Technology is manufactured by single manufacturer.  
Yes the rates are reasonable  
We have not found any model with same technology and functional features.
6. What were the efforts made to locate alternative source of supply or use other substitutes.
7. Why open/limited tender can't be resorted to, for locating alter native source.
8. Are the proprietary items certifying that the rates are reasonable or not.
9. Any other justification for procuring item from single source

Signature of Indentor  
(Demanding Officer)

डॉ. रूपेश कुमार श्रीवास्तव  
DR. RUPESH KUMAR SRIVASTAVA  
Head of the Department  
Dept. of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-29

COUNTERSIGNED  
(Head of the Department)

डॉ. रूपेश कुमार श्रीवास्तव  
DR. RUPESH KUMAR SRIVASTAVA  
Head of the Department  
Dept. of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-29

(Strike out whichever is not applicable)

डॉ. शुभम कुमार वर्मा  
DR. SHUBHAM KUMAR VERMA  
Associate Professor  
Dept. of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-29

Dr. Anushree Gupta  
Dr. Anushree Gupta  
Associate Professor, Dept. of Biotechnology  
All India Institute of Medical Sciences  
Ansari Nagar, New Delhi-29

**SPECIFICATIONS FOR DUAL INDEPENDENT COMPRESSOR SYSTEM COOLING (-80° C REFRIGERATOR) STORAGE**

- Should have Temperature range of -50°C to -86°C (1°C increment)
- Capacity: Should be with in the range of **700-750 Liters**
- Should have VIP Plus insulation on all walls and the outer door to eliminate distortion, and inhibit moisture accumulation that can lead to icing
- Should have PTI 1000.
- Should have Automatic and Manual Vacuum Release ports
- Should have 2- independent compressors, Hermetic 1100 W, with their independent evaporators and cooling fans. Compressors should not be mutually dependent as high & low stage system compressors
- Should have a facility that in case 1 compressor fails, the other compressor maintains a minimum temperature of -70°C for an indefinite period
- Should have constant performance monitoring of both refrigeration systems, including compressors and fan motors with self-diagnostic function
- Should incorporate energy savings by running the two independent refrigeration systems in overlapping cycles
- Should have Touch Screen LCD display control panel at eye level with Data log function that retains operation data for a preset period with option to directly transmit data thru USB port
- Should have protection from accidental setting of control panel
- Should have Audible & visual alarms for: High/low temperature, Door ajar, Power failure, Remote alarm contact, Part replacement notification, Fan lock alarm, Refrigeration circuit abnormal alarm
- Should have Filter-less construction to eliminate the need for an air filter or bothersome filter cleaning and maintenance
- Should have 4 inner compartments with SS Shelves
- Should have two independent, insulated & removable inner doors (HCFC Free)
- Should equipped with fivefold gasket to prevent air escape and frost formation
- Should be Class IIa Medical Device, CE certified, ISO 9001 & 14001 compliant

  
**Dr. Rupesh K. Srivastava**  
Assistant Professor & PI  
Department of Biotechnology  
AllMS, New Delhi  
Dr. RUPESH KUMAR SRIVASTAVA  
सहायक प्राध्यापक (Assistant Professor)  
जीव प्रौद्योगिकी विभाग  
Dept. of Biotechnology  
ज.सि.आर.पि. अंसारी नगर, नई दिल्ली-29  
AllMS, Ansari Nagar, New Delhi-29

  
**Dr. Anushree Gupta**  
Associate Professor  
Department of Biotechnology  
AllMS, New Delhi  
डॉ. अनुश्री गुप्ता/Dr. Anushree Gupta  
सह-अध्यापक, जीव प्रौद्योगिकी विभाग  
Associate Professor, Dept. of Biotechnology  
असिस्ट प्रोफेसर आनुवंशिक विभाग  
AllMS, Ansari Nagar, New Delhi-29

  
**Dr. Bhupendra K. Verma**  
Assistant Professor  
Department of Biotechnology  
AllMS, New Delhi  
डॉ. भूपेन्द्र कुमार वर्मा  
Dr. BHUPENDRA KUMAR VERMA  
सहायक प्राध्यापक (Assistant Professor)  
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Dept. of Biotechnology  
ज.सि.आर.पि. अंसारी नगर, नई दिल्ली-29  
AllMS, Ansari Nagar, New Delhi-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 "- 80 degree Refrigerator"  
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/MDFDU702VX/AIIMS/2018/2118

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

SUB: QUOTATION OF DEEP FREEZER (-80°C) – PHCBI, JAPAN.

Dear Sir/Ma'am,

With reference to your requirement for Deep Freezer(-80°C), we are pleased to submit herewith, our offer for the same from **PHCbi, Japan** formerly **Panasonic/ SANYO** on behalf of our principals, **Scimed (Asia) Pte Ltd, Singapore**.

Deep Freezer -80°C Capacity:729L(itres)(Qty-1)

Make: PHCbi, Japan formerly Panasonic

Model No. -MDF- DU702VX

The most secure ultra-low temperature freezers for the storage of high value samples **TwinGuard** Ultra Low Temperature Freezers with Dual Cooling Technology offer the highest level of security for high-value samples. Alongside exceptional ease-of-use and data monitoring, the Dual Cooling System provides the highest level of protection.

**Features:**

- Dual Cooling System
- EZlatch
- LCD Touch screen
- USB port
- Eco Mode Operation

**Benefits:**

- Extreme secure Dual Cooling System
- VIP PLUS insulation
- Flexible shelf layout
- Intelligent Interface
- Innovative Cabinet Design



The TwinGuard MDF-DU702VX -86°C Ultra Low Temperature Freezer satisfies an industry demand for safe, long-term storage for the most high-valued materials. Two, independent refrigeration systems, combined with optional liquid nitrogen or liquid CO2 back-up systems, offer a circle of protection unmatched in the marketplace.



With two independent refrigeration systems TwinGuard freezers maintain a reliable and uniform -86°C ultra low temperature environment. Should one cooling system suffer an unexpected failure, the other circuit will keep irreplaceable samples safely around -70°C until service can be arranged.

**FLEXIBLE SHELF LAYOUT:**

Multiple shelf configurations allow a variety of storage options. Organize your samples by transferring your current inventory racks.

**ULTIMATE SAMPLE PROTECTION:**

The Dual Cooling System offers the highest level of protection through the use of two independent refrigeration systems. If one system unexpectedly fails the other can maintain the freezer in the -70°C range. Securely store valuable and irreplaceable samples with the upmost confidence that they won't be lost in the case of compressor failure.

**EFFICIENT SAMPLE STORAGE:**

The combination of VIP PLUS vacuum insulation and an enhanced cabinet design with insulated outer door, ensures optimum temperature uniformity, while the reduced wall thickness maximizes storage capacity.

**INTELLIGENT INTERFACE:**

The EZlatch makes access to stored samples even easier. A colour LCD touch panel allows full user control, even with gloved hands, while the USB port makes transferring logged data to a PC convenient.

**FILTERLESS DESIGN:**

The filterless construction of the freezers reduces routine maintenance time by eliminating the need for regular cleaning of filters.

**INNOVATIVE CABINET DESIGN:**

The enhanced cabinet design with chamfered edges reduces footprint for use in multi freezer laboratories.

**SPECIFICATIONS:**

External Dimensions (W x D x H)	1030 x 882 x 1993 mm
Internal Dimensions (W x D x H)	870 x 600 x 1400 mm
ØVolume	729 litres
Net Weight	328 kg



Capacity (Aluminium Racks 2" Boxes)	576 (2" boxes)
Cooling Performance	-86 °C
Temperature Control Range	-50 to -86 °C
Controller	Microprocessor, non-volatile memory
Display	LCD Touch Screen
Temperature Sensor	Pt-1000
Refrigeration System	Independent Dual-Cooling
Compressors	2 x 1100 W
Insulation Material	PUF / VIP Plus
Insulation Thickness	80 mm
Exterior Material	Painted Steel
Interior Material	Painted Steel
Outer Doors/Lid	1
Outer Door Lock	Y
Inner Doors/Lid	2
Max. Load - Per Shelf	50 kg
Max. Load - Total	515 kg
Vacuum Release Port	2 (1 automatic, 1 manual)
Access Port	3
Access Port Position	back x 1, bottom x 2
Access Port Diameter	17
Casters	4 (2 leveling feet)
Power Failure	V-B-R
High Temperature	V-B-R
Low Temperature	V-B-R
Filter	Filterless design

Door Open	V-B
Power Supply	Local
Frequency	Local
Noise Level	52 dB [A]

S. No	Model No.	Description	Qty	Unit Price(INR)	Total Price(INR)
1	MDF-DU702VX	DEEP FREEZER -80°C Make: PHCbi, Japan	01	RS.7,20,000.00	Rs.7,20,000.00
Total Price:					Rs.7,20,000.00
GST @ 5%:					Rs.36,000.00
Total Unit Price (FOR- AHMS, NEW DELHI) :					Rs.7,56,000.00
Rupees Seven Lacs Fifty Six Thousand Only					

Note: FOR Prices quoted are valid only if institute provides us along with order a valid custom duty exemption certificate and DSIR along with necessary authorizations to clear the consignment from customs.

Thank You

For Empirical Scientific

Sachin Singh

Please refer next page for Terms and Conditions:

**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-**

CMC Charges	Per Unit Price (INR)	Total Price (INR)
1 <sup>st</sup> Year	Rs. 20,000/-	Rs. 20,000/-
2 <sup>nd</sup> 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





PROPRIETARY ARTICLE CERTIFICATE

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 MDF-U702VX is designed to accommodate a range of diversified experimental requirements, proving ideal not just when user presence is available but even during night time and holidays or experimentation that requires settings to be changed, microorganism culture and preservation. Temperature control and stability, timer mode to suit user experiments allow variable programming for a wide variety of temperature and light patterns that are essential in biological research with accurate reproducibility and control.
  - The innovative Proprietary Design utilizing two independent systems allows the unit to continue to run continuously at -70c in the unlikely event of one compressor failure or on circuit failure.
  - Filterless design prevent rise in temperature due to filter clogging.
  - Eco Mode ® establishes an overlapping cycle to significantly reduce energy consumption while optimizing interior uniformity from top-to-bottom and front to back for protection of high value materials.
- (ii) What are the unique functional features of the instrument that make the item proprietary?
- Dual compressor
  - Ecomode
  - Filterless Design
  - Five Fold Gaskets
- (iii) How are they important for scientific work?
- Maintain sample temperature uniformity across samples in the entire chamber from top to bottom for sample integrity
  - Quick temperature recovery after door opening to maintain sample integrity
  - Prevent internal condensation, even during high temperature operation
  - Protects samples during an event of failure of compressor or circuit especially when user is away.
- (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





PHC Corporation  
3-30-5 Minamishinjoh, Minato-Ku, Tokyo  
106-8433 Japan  
Tel: +81-3-5426-7290  
www.phc.co.jp

2nd April, 2018

### 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



PHC Corporation  
1-36-1 Nishimurocho, Minato-ku, Tokyo  
105-8512, Japan  
Tel: +81-3-5468-7291  
www.phc.co.jp

## 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 / Multigas Incubators
- Heated Incubators
- Cooled Incubators
- Plant Growth Chambers
- Portable Laboratory Autoclaves
- Vial Fillers

*P*



January 7, 2019

### 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, Moha 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.

Yours faithfully,

For SciMed (Asia) Pte Ltd

  


Dennis Shim  
(Authorized Signatory)