



Republic of the Philippines  
**DEPARTMENT OF SCIENCE AND TECHNOLOGY**  
**ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE**



**PURCHASE ORDER**

ASTI – FM 03-17  
 REV 3 / 10 October 2023

<b>Supplier:</b>	<b>QUANTEL GLOBAL PHILIPPINES CORPORATION</b>	<b>PO No.:</b>	<b>24-09-215</b>
<b>Address:</b>	<b>Unit 2401-2402 24/F The Orient Square Bldg., F. Ortigas Jr. Rd., Ortigas Center, San Antonio, Pasig</b>	<b>PO Date:</b>	<b>September 26, 2024</b>
<b>TIN:</b>	<b>009-754-333-000</b>	<b>Mode of Procurement:</b>	<b>NP-53.1 Two Failed Biddings</b>

Gentleman:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

**Place of Delivery:** EPDC Bldg., MIRDC Compd., Bicutan, Taguig City

**Delivery Term:**

**One hundred twenty (120) calendar days upon issuance of Notice to Proceed**

**Date of Delivery:** \_\_\_\_\_

**Payment Term:**

**Government Terms**

**Warranty Term:**

Stock / Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	Lot	<p><b>Thermal Shock Chamber</b></p> <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply, Delivery, Installation, Testing, Training and Commissioning of One (1) lot Thermal Shock Chamber, for Product Safety Laboratory of Electronics Product and Development Center.</p> <p>1.2. The Approved Budget for the Contract is inclusive of all applicable government taxes and other charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Supply and delivery of one (1) lot Thermal Shock Chamber with the following specifications:</p> <p>2.1.1. Temperature</p> <p>2.1.1.1. Temperature range: -40°C ~ +150°C</p> <p>2.1.1.2. Range of High Temperature Zone: +60°C ~ +150°C</p> <p>2.1.1.3. Range of Low Temperature Zone: -40°C ~ -10°C</p> <p>2.1.1.4. Set Range of High Temperature Zone: +60°C ~ +200°C</p> <p>2.1.1.5. Set Range of Low Temperature Zone: -65°C ~ -10°C</p> <p>2.1.1.6. Shock Revert Time of the Test Chamber: -40°C ~ +150°C, about 5 minutes</p> <p>2.1.1.7. Constant Temperature Time of High and Low Temperature Shock: Above 30 minutes</p> <p>2.1.1.8. Temperature Constancy: ±1.5°C</p> <p>2.1.1.9. Temperature Uniformity: ±2°C</p> <p>2.1.2. Dimension</p> <p>2.1.2.1. Internal Dimension (WxHxD): 65x46x67cm (±).</p> <p>2.1.2.2. External Dimension (WxHxD): 160x198x194cm (±).</p> <p>2.1.2.3. External dimensions do not include protrusions.</p> <p>2.1.2.4. Volume: 200L</p>	1	P4,999,000.00	P4,999,000.00

**Postal Address :** ASTI Bldg., U.P. Technology Park Complex, CP Garcia Ave., Diliman, Quezon City 1101  
**Website :** www.asti.dost.gov.ph  
**Email :** info@asti.dost.gov.ph

**Tel No. :** +632 8249-8500  
 +632 8426-9755

- 2.1.3. Structure:
  - 2.1.3.1. Interior Material: Stainless steel plate
  - 2.1.3.2. Exterior Material: SPHC hot-rolled steel plate electrostatic powder coating
  - 2.1.3.3. Heat preservation material:
    - 2.1.3.3.1. High Temp Chamber: glass wool
    - 2.1.3.3.2. Low Temp Chamber: PU foam + glass wool
  - 2.1.3.4. Heater: Bare type heater
  - 2.1.3.5. Airflow Cycle System:
    - 2.1.3.5.1. Fan Motors: 1 HP – 4 sets.
    - 2.1.3.5.2. Lengthen stainless steel axes.
    - 2.1.3.5.3. Sirocco fan
  - 2.1.3.6. Chamber Door: Single door, left open, handle is at the right side.
    - 2.1.3.6.1. Flat buckle handle
    - 2.1.3.6.2. Hidden hinge
- 2.1.4. Refrigeration System:
  - 2.1.4.1. Compressor: Imported compressor
  - 2.1.4.2. Refrigerant: CFC free refrigerant
  - 2.1.4.3. Condenser: Air cooling type
- 2.1.5. Programmable Controller: 7" LCD touch screen
- 2.1.6. Remote Monitoring Software
- 2.1.7. Refrigeration System:
  - 2.1.7.1. Condenser: Air cooling type
- 2.1.8. Controller
  - 2.1.8.1. Running Mode: Program running
  - 2.1.8.2. Memory: 10000 programs and 10000 cycles of each program.
  - 2.1.8.3. Input Range: Temp.: -100~200°C
  - 2.1.8.4. Display range: Temp.: -100~200°C
  - 2.1.8.5. Set Resolution: Temp: 1°C (1min in shock and 1sec in air vent/recover process)
  - 2.1.8.6. Display Resolution: Temp.: 0.1°C (Time: 1 sec in showing the actual temperature (PV))
  - 2.1.8.7. Temperature Measurement: T-type
  - 2.1.8.8. Control Mode: PID
  - 2.1.8.9. Can set two-zone or three-zone thermal shock.
- 2.1.9. Page Display
  - 2.1.9.1. Human-machine interface and touch panel input and control.
  - 2.1.9.2. Display of setting value (SV) and actual value (PV) of temperature and humidity.
  - 2.1.9.3. Display of program number, step number, remain time and running time.
  - 2.1.9.4. Show and output of actual and history curves.
  - 2.1.9.5. Independent program editor page.
  - 2.1.9.6. Language Options: Simplified Chinese /Traditional Chinese/ English
  - 2.1.9.7. Backlight time setting(0~60min) and always lighting (0min)
  - 2.1.9.8. Backlight Regulation: 6 levels of luminance choice.
  - 2.1.9.9. Trouble Shooting: Show the information of cause, solution, and history record.
- 2.1.10. Program Capacity and Control
  - 2.1.10.1. Program Capacity: Max 10000 programs and 10000 cycles.
  - 2.1.10.2. Shock Time: Max 10000hr 59min.
  - 2.1.10.3. Two-time signal control of ON/OFF for the power of the specimens.
  - 2.1.10.4. Advance hold when the program is running.
  - 2.1.10.5. USB interface to store and copy the data, maximum capacity 32G.

2.1.10.6. Zoom in graph shows 10min in time axial per page and maximum show graph of 10000hrs on the controller.

2.1.10.7. Graph record rate setting between 1~60sec.

2.1.10.8. Preset start/stop

2.1.10.9. Wait to hold the actual temperatures.

2.1.10.10. Reboot Mode: Hot, cool and stop

2.1.10.11. Screen lock, system time adjustment, and memory of test data when power outage

2.1.10.12. Remote Monitor Software: To monitor the running status and control the Start/Stop of the chamber on PC.

2.1.11. Safety Devices

2.1.11.1. Over-temp protector, overvoltage, and reverse/off phase protector.

2.1.11.2. Compressor overheat protector, compressor high-pressure protector.

2.1.11.3. Compressor over-current protector, buzzer.

2.1.12. Cable port hole

2.1.12.1. One set of  $\varnothing$ 50mm cable port hole on the chamber left side for the specimen cable entry. Accessory with one stainless steel cover and one silicone stopper.

2.1.13. Bracket

2.1.13.1. Stainless steel netting shelf SUS #304, two (2) pcs.

2.1.13.2. Stainless steel adjustable 40mm shelf hook, eight (8) pcs.

2.1.14. Gland Strip: Silicone foam

2.1.15. Environment

2.1.15.1. Function ensure Range: 5~35°C (Except for cooling time)

2.1.16. Power Requirement: 3 $\phi$  220V 60 Hz.

2.1.17. Safety Grounding: Grounding resistance $\leq$ 4 $\Omega$

2.1.18. Comes with Valid ISO 17025:2017 equipment calibration certificate.

## 2.2. Installation and Training

2.2.1. Equipment setup and installation at Product Safety Laboratory including necessary civil works.

### 2.2.2. Electrical

2.2.2.1. Must include all necessary electrical works and materials (e.g., wires, circuit breakers, panel board, raceways, etc.), for the setup and operation of the thermal shock chamber.

2.2.2.2. Must submit a proposed electrical layout or diagram that includes detailed specifications of all necessary electrical devices essential for the optimal operation of the offered equipment. Additionally, see attached ground floor layout for reference.

2.2.2.3. The proposed electrical layout or diagram must be approved by the end-user prior installation.

### 2.2.2.4. As-built Plan

2.2.2.4.1. Must submit a comprehensive As-Built Plan after the equipment installation detailing the electrical layout specifically designed for the thermal shock chamber installation including the electrical system of the Product Safety Laboratory.

2.2.2.4.2. The original comprehensive As-Built Plan submitted must be signed and dry-sealed

	<p>by a professional electrical engineer.</p> <p>2.2.2.5. Must provide two (2) original comprehensive As-Built Plan.</p> <p>2.2.3. Training</p> <p>2.2.3.1. Shall conduct at least five (5) calendar days of hands-on training on operation, application, and maintenance of the equipment within ten (10) calendar days upon installation of equipment.</p> <p>2.2.3.2. The training shall include food, transportation, and other training expenses.</p> <p>2.3. Warranty</p> <p>2.3.1. One (1) year warranty on all proposed hardware and accessories and two (2) years on services.</p> <p>2.3.2. Availability of technical support 24/7 via email, phone, or SMS during the warranty period.</p> <p><b>3. PAYMENT AND DELIVERY TERMS</b></p> <p>3.1. Shall deliver all modular components, including setup, installation, and training at the EPDC located at EPDC Bldg., MIRDC compound, General Santos Ave., Taguig, 1631 Metro Manila, within the period of one hundred twenty (120) calendar days commencing from the date of issuance of the Notice to Proceed.</p> <p>3.2. Price encompasses all costs related to freight, insurance, custom duties, taxes, and VAT.</p> <p>3.3. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.</p> <p>(Please see attached offer.)</p>			
			<b>TOTAL:</b>	<b>₱4,999,000.00</b>
<b>(Total Amount in Words)</b>			<b>Four Million Nine Hundred Ninety Nine Thousand Pesos Only</b>	

The contract price is inclusive of taxes and other fees or charges. In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, DOST-ASTI may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances and in accordance with the provisions of the latest implementing rules and regulations of RA 9184.

Conforme:

Very Truly Yours,


\_\_\_\_\_  
(Signature over Printed Name of Supplier)

  
**FRANZ A. DE LEON, Ph.D.**

Director, DOST-ASTI

Digitally signed  
by Benjamin R.

\_\_\_\_\_  
(Date)

<b>Fund Cluster:</b>	01	ORS / BURS No.: 0610102024-09-00087
<b>Funds Available:</b>	₱ 4,999,000.00	ORS / BURS Date: SEPTEMBER 26, 2024
<p> <b>GAY CONCEPCION S. BUGAGAO</b></p> <p>Accountant III</p>		Amount: ₱ 4,999,000.00



Republic of the Philippines  
**DEPARTMENT OF SCIENCE AND TECHNOLOGY**  
**ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE**



26 September 2024

**NOTICE TO PROCEED**  
**TWO FAILED BIDDINGS**

**Mr. JOHANN JOEL RUIZ**  
Country Manager  
**QUANTEL GLOBAL PHILIPPINES CORPORATION**  
Unit 2401-2402 24/F The Orient Square Bldg.  
F. Ortigas Jr. Rd., Ortigas Center, San Antonio  
Pasig City, 1605

Dear Mr. Ruiz,

Notice is hereby given to **QUANTEL GLOBAL PHILIPPINES CORPORATION** that work/delivery may proceed for the following procurement details:

Contract Name	: <b>Supply, Delivery, and Installation of One (1) Lot Thermal Shock Chamber for DOST-ASTI EPDC</b>
Purchase Request No.	: <b>GAA-24-03-18873</b>
Purchase / Work Order No.	: <b>24-09-215</b>
Total Contract Price	: <b>Php 4,999,000.00</b>
(inclusive of taxes, import duties and all other charges or fees)	
Total Contract Price in Words	: <b>Four Million Nine Hundred Ninety Nine Thousand Pesos</b>

Upon signing receipt of this Notice, you are responsible for performing the services under the terms and conditions of the Agreement/Purchase Order/Work Order and in accordance with the schedule of requirements/delivery schedule.

You are also hereby required to file a Warranty Security for a minimum period of three (3) months, in the case of Expendable Supplies, or a minimum period of one (1) year, in the case of Non-Expendable Supplies, after acceptance by the Procuring Entity of the delivered supplies. It shall be either retention money in an amount equivalent to at least five percent (5%) of every progress payment, or a special bank guarantee equivalent to at least five percent (5%) of the total contract price. The said amounts shall only be released after the lapse of the warranty period or, in the case of Expendable Supplies, after consumption thereof: Provided, however, That the supplies delivered are free from patent and latent defects and all the conditions imposed under the contract have been fully met.

Note that failure to comply with the above requirements and failure to perform the services under the terms and conditions of the Agreement/Purchase Order/Work Order may constitute grounds for its forfeiture.

Please acknowledge receipt and acceptance of this Notice by signing in the space provided below. There are two (2) copies of this document; you may keep one copy and return the other to the Bids and Awards Committee (BAC) Secretariat of the Advanced Science and Technology Institute. Should you have any questions or clarifications, you may reach us at bac-sec@asti.dost.gov.ph.

Respectfully,

**FRANZ A. DE LEON, Ph.D.**   
Digitally signed by Franz A. De Leon  
Director Benjamin R. Lara

**DATE OF ISSUANCE:**

**RECEIVED BY:**

**WARRANTY SECURITY**

**SEP 27 2024**

Signature over Printed Name

Type of Warranty Security:

Amount of Warranty Security:

O.R. No.:

**Php**

Date and Time

Postal Address : ASTI Bldg. UP Technology Park Complex  
CP Garcia Ave., Diliman, Quezon City 1101  
Website: : www.asti.dost.gov.ph  
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REV 3 / 05 October 2023