



**ASTI-FM 03-11**  
**REV 2/30 APR 2024**

**DOST-ASTI Bids and Awards Committee**  
**Invitation to Bid (Public Bidding)**

<b>IB No:</b>	24-05-4801	<b>Date:</b>	June-11-2024
<b>PR No:</b>	GAA-24-03-18873	<b>Date:</b>	March-18-2024
<b>Source of Funds:</b>			
<b>Total ABC:</b>	Php 5,000,000.00		
<b>Time, Date &amp; Venue of Pre-bid Conference:</b>	June 20, 2024, 9:00 AM at Videoconferencing (MS Teams)		
<b>Time and Date of Submission of Bids:</b>	July 02, 2024, 09:00 AM		
<b>Time, Date &amp; Venue of Opening Bids:</b>	July 02, 2024, 9:30 AM at DOST-ASTI and Videoconferencing (MS Teams)		
<b>Date of availability of Complete Set of Documents:</b>	June 13, 2024		
<b>Deadline of Potential Bidder's Clarifications:</b>	June 22, 2024		
<b>Deadline of ASTI's Supplemental Bid Bulletin:</b>	June 25, 2024		
<b>Delivery Schedule:</b>			

The *Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI)*, through its Bids and Awards Committee (BAC), hereby invites all interested Bidders to submit their bids for the *item/s* listed below. *Section II. Instructions to Bidders (ITB) of the DOST-ASTI Bidding Documents provides information necessary for bidders to prepare responsive bids, in accordance with the requirements of DOST-ASTI. The ITB likewise provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and award of contract.*

Bidding will be conducted through open competitive bidding procedures *using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.*

A complete set of *DOST-ASTI Bidding Documents* may be acquired by interested Bidders on the date and address given on this document, and upon payment of the applicable fee, pursuant to the latest Guidelines issued by the Government Procurement Policy Board. Further, the *DOST-ASTI Bidding Documents* may be accessed through the *DOST-ASTI website (https://asti.dost.gov.ph/)*.

For further inquiries, you may contact the **DOST-ASTI BAC Secretariat** at telephone number **+63 2 8249-8500 / +63 2 8426-9755 local 1206/1212** or send your message to **bac-sec@asti.dost.gov.ph**.

Respectfully,

**BAYANI BENJAMIN R. LARA**  
*BAC Chairperson*

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<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</p>	1	lot	5000000.00	5,000,000.00

Shock Chamber with the following specifications:

2.1.1. Temperature

2.1.1.1. Temperature range: -40°C ~ +150°C

2.1.1.2. Range of High Temperature Zone: +60°C ~ +150°C

2.1.1.3. Range of Low Temperature Zone: -40°C ~ -10°C

2.1.1.4. Set Range of High Temperature Zone: +60°C ~ +200°C

2.1.1.5. Set Range of Low Temperature Zone: -65°C ~ -10°C

2.1.1.6. Shock Revert Time of the Test Chamber: -40°C ~ +150°C, about 5 minutes

2.1.1.7. Constant Temperature Time of High and Low Temperature Shock: Above 30 minutes

2.1.1.8. Temperature Constancy:  $\pm 1.5^\circ\text{C}$

2.1.1.9. Temperature Uniformity:  $\pm 2^\circ\text{C}$

2.1.2. Dimension

2.1.2.1. Internal Dimension (WxHxD): 65x46x67cm ( $\pm$ ).

2.1.2.2. External Dimension (WxHxD): 160x198x194cm ( $\pm$ ).

2.1.2.3. External dimensions do not include protrusions.

2.1.2.4. Volume: 200L

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: 3φ 3W 220V 60 Hz.

2.1.17. Safety Grounding: Grounding resistance≤4Ω

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. As-Built Plan

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

2.2.2.2.2. The original comprehensive As-Built Plan submitted must be signed and dry-sealed by a professional electrical engineer.

2.2.2.2.3. Must provide two (2) original comprehensive As-Built Plan.

2.2.3. Training

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.

2.2.3.2. The training shall include food, transportation, and other training expenses.

2.3. Warranty

2.3.1. One (1) year warranty on all proposed hardware and accessories and two (2) years on services.

2.3.2. Availability of technical support 24/7 via email, phone, or SMS during the warranty period.

3. PAYMENT AND DELIVERY TERMS

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.

3.2. Price encompasses all costs related to freight, insurance, custom duties, taxes, and VAT.

3.3. Full payment will only be processed once completely delivered, inspected, and accepted by the end-user.

**TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):**

**Php 5,000,000.00**

**RESERVATION CLAUSE**

The Advanced Science and Technology Institute reserves the right to accept or reject any proposal, to annul the bidding

process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.