



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

IB No:	23-02-4254	Date:	February-21-2023
PR No:	QCS-22-09-15004	Date:	September-16-2022
Source of Funds:			
Total ABC:	Php 15,000,000.00		
Time, Date & Venue of Pre-bid Conference:	March 01, 2023, 9:00 AM at Videoconferencing (MS Teams)		
Time and Date of Submission of Bids:	March 13, 2023, 09:00 AM		
Time, Date & Venue of Opening Bids:	March 13, 2023, 9:30 AM at DOST-ASTI and Videoconferencing (MS Teams)		
Date of availability of Complete Set of Documents:	February 21, 2023		
Deadline of Potential Bidder's Clarifications:	March 03, 2023		
Deadline of ASTI's Supplemental Bid Bulletin:	March 06, 2023		
Delivery Schedule:			

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>Cooling and Power Management System</p> <p>1. GENERAL OVERVIEW</p> <p>1.1 The Advanced Science and Technology Institute is seeking qualified and competent bidders for the Supply, Delivery and Installation of one (1) lot Cooling and Power Management System. Included in the scope of work is the plan, design and layout in consideration of the location where the Cooling and Power Management System will be placed.</p> <p>1.2 Said system shall be used for cooling and power management at the DOST-ASTI Computing and Archiving Research Environment (COARE) Research</p>	1	lot	15000000.00	15,000,000.00

Data Center.

- 1.3 The approved budget for the contract is inclusive of all applicable government taxes and service charges.
- 1.4 The technical specifications indicated herein are a minimum requirement, unless otherwise specified.
- 1.5 Space: the Research Data Center (RDC) is a 40-foot container van fabricated as a data center with 10-rack space for servers, PACU, UPS.
- 1.6 ASTI shall secure the necessary permits from the University of the Philippines pertaining to the installation and fabrication works related to the Research Data Center (if any).
- 1.7 The winning supplier shall secure any other permits related to the completion of their installation and fabrication works.
- 1.8 The winning bidder must coordinate with ASTI at all phases/stages of their installation and fabrication works.
- 1.9 The winning bidder is responsible for any rental of equipment (and any related insurance, permit or license), transportation or any other materials and services that will be needed in their installation and fabrication works.
- 1.10 Interested bidders may request for ocular inspection of the ASTI Research Data Center, through the DOST-ASTI BAC.

2. TECHNICAL SPECIFICATIONS

- 1.1 Precision Air Conditioning Unit (PACU), No. of Units: Four (4)
 - 1.1.1 Input Power: 3-phase 380-415 V, 50/60 Hz
 - 1.1.2 Total Capacity: 30 kW
 - 1.1.3 Sensible Capacity: 30 kW
 - 1.1.4 Rated Input Power: 10.3 kW
 - 1.1.5 Fan Type: EC
 - 1.1.6 Reheater Type: PTC
 - 1.1.7 Reheater Capacity: 3 kW
 - 1.1.8 Humidifier Type: Electrode
 - 1.1.9 Humidifier Capacity: 3 kg/hr
 - 1.1.10 Piping Connection: Top / Bottom
 - 1.1.11 Communication: RS-485 x 1, FE port, USB port, Dry contact
 - 1.1.12 User Interface: Touch panel
 - 1.1.13 Other features: With drain pump, humidity control, dual input and SNMP port, leakage detection sensor
 - 1.1.14 Space allocation in the data center for PACU: total width for the four (4) units should not exceed 1800mm
 - 1.1.15 Safety Certification: CE, RCM
 - 1.1.16 Outdoor Condenser: 3-phase 380-415 V, 50/60 Hz, Variable fan speed
 - 1.1.17 Includes start-up and commissioning
 - 1.1.18 Includes standard electrical works installation and turn-up
 - 1.1.19 Any other fabrication or repair works related to the installation of the cooling and power management system.

2.2 40kVA Uninterruptible Power Supply (UPS)

2.2.1 General Requirements:

2.2.1.1 Additional modules for existing UPS unit

2.2.1.2 2 x 20kVA module

2.2.2 Capacity: 20KVA/20KW

2.2.3 Phase: 380/400/415VAC 3-Phase

2.2.4 Input voltage range: 3-phase, 228VAC to 478VAC

2.2.5 Input Frequency range: 40Hz to 70Hz

2.2.6 Output voltage: 220/230/240VAC (1-Phase), 380/400/415VAC (3-Phase)

2.2.7 Output Frequency: 50/60 Hz

2.2.8 Form factor: 3U Rack-mountable

2.2.9 Output Parameters - Overload Capacity performance: 110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms

2.2.10 System parameters and standard - Conversion type: On-line double conversion - parallel operation: up to 3+1 parallel operation

2.2.11 Transfer Time (power failure): No transfer time, online operation

2.2.12 Protection Level: IP20 - Management: - 10/100 Mbit Ethernet, IPv4 and IPv6 - SNMP (v1/v2c and v3)

2.2.13 Battery - Total Runtime: 10-15mins under full load

2.2.14 Form Factor: Rack-mountable - Accessories: - rack railing kits - 1-2m parallel cable kits - 0.5-2m External battery cables

2.2.15 Standards and Certifications:

2.2.15.1 Safety and EMC: IEC/EN 62040-1 (Safety) and IEC/EN 62040-2 (EMC)

2.2.15.2 ISO 9001:2015

2.2.16 Includes start-up and commissioning

2.2.17 Includes standard electrical works installation and turn-up

2.2.18 Any other fabrication or repair works related to the installation of the cooling and power management system.

3 OTHER SPECIFICATIONS

3.1 Supply of labor, materials, and supervision for machine connection of copper tube, copper elbow rubber insulation, silver rod, polyethylene tape, refrigerant, and other consumable materials for the completion of refrigerant piping of PACU

3.2 Supply and installation of electrical THHN wires, including MDP assembly, 1 unit 100kVA dry type transformer for PACU and additional 20kVA transformer for existing 80kVA transformer, PACU PP assembly, UPS Input & Output PP, ECBs, RSC pipe, flexible liquid tight, and other consumable materials

3.3 Construction of pathwalk complete with earthworks, formworks, rebars, concrete works

3.4 Fabrication and installation of steel metal platform

<p>for indoor unit</p> <p>3.5 Fabrication and installation of steel metal mounting for outdoor unit</p> <p>3.6 Dismantling of ceiling, chipping works and restoration of all affected areas</p> <p>3.7 Hauling, lifting and positioning of indoor and outdoor units</p> <p>3.8 Installation of condensate drain line within the Data Center</p> <p>3.9 Installation of humidifier piping</p> <p>3.10 Mechanical installation including UTP cable for installation</p> <p>3.11 Physical re-orientation of existing racks</p> <p>3.12 Dismantling works</p> <p>3.13 Busway installation</p> <p>3.14 BOM, Workplan and schedule, layout and as-built plan to be submitted to ASTI within two (2) weeks from receipt of Notice to Proceed.</p> <p>3.15 Site Management Plan to be submitted within two (2) weeks after approval of BOM, Workplan and Schedule, Layout and As-built plans.</p> <p>4 WARRANTY AND AFTER SALES SUPPORT</p> <p>4.1 Two (2) years, with quarterly PMS during warranty period</p> <p>4.2 24/7 on-call support either thru call, chat, SMS, especially during emergencies.</p> <p>4.3 Escalation procedure, including personnel and contact details for each level must be provided.</p> <p>4.4 One (1) year warranty period for any installation and fabrication damages due to quality of work.</p> <p>4.5 Supplier must provide a focal person for any installation and fabrication-related issues and concerns.</p> <p>5 PAYMENT AND DELIVERY TERMS</p> <p>5.1 Progress Billing following the schedule below:</p> <p>5.1.1 Approval of BOM, workplan and schedule, layout and as-built plan, Site Management Plan; Mobilization and pre-installation and pre-fabrication works - 15%</p> <p>5.1.2 Delivery of equipment and installation - 50%</p> <p>5.1.3 Final Acceptance - 35%</p>				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):				Php 15,000,000.00
RESERVATION CLAUSE				
<p>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.</p>				