ASTI-FM 03-11
REV 1/08 JUN 2022

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

IB No:	23-11-4632	**Date:**	November-16-2023
PR No:	INNOVATE-23-10-17990	**Date:**	November-09-2023

Source of Funds:	
Total ABC:	Php 8,649,153.96
Time, Date & Venue of Pre-bid Conference:	November 24, 2023, 9:00 AM at Videoconferencing (MS Teams)
Time and Date of Submission of Bids:	December 06, 2023, 09:00 AM
Time, Date & Venue of Opening Bids:	December 06, 2023, 9:30 AM at DOST-ASTI and Videoconferencing (MS Teams)
Date of availability of Complete Set of Documents:	November 17, 2023
Deadline of Potential Bidder's Clarifications:	November 26, 2023
Deadline of ASTI's Supplemental Bid Bulletin:	November 29, 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 Digitally signed by Bayani Benjamin R. Lara

BAYANI BENJAMIN R. LARA
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	**Lease of Room Space in Data Center Facility with Services (including Rack Cabinet Rental) Secondary Data Center** 1.0. GENERAL OVERVIEW 1.1. The DOST-ASTI is seeking qualified and competent bidders for the Lease of Room Space in Data Center Facility with Services including Rack Cabinet Rental to serve as Secondary Data Center within the specified duration. 1.2. The Approved Budget for the Contract is inclusive of all applicable government taxes and service charges, e.g., Value Added Tax, One-time Charges, termination and pre-termination charges,	12	month	720762.83	8,649,153.96

Postal Address : ASTI Bldg., U.P Technology Park Complex, C.P. Garcia Ave., Diliman, Quezon City 1101
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cross connection fees, duties, etc.

2.0. TECHNICAL SPECIFICATIONS

2.1. Room Space and Network Requirements

2.1.1. Must be located inside a highly secured area of the data center but separated from the common co-location area. Ten (10) racks are needed.

2.1.2. Ten (10) or more racks adjacent to the racks stated in 2.1.1. must be readily available in case of possible expansion in the future.

2.1.3. Must have separate pathways for power and network cabling of at least two (2) meters separation.

2.1.4. Must have a redundant Precision Air Condition Units.

2.1.5. Must have a redundant generator system.

2.1.6. Must have a redundant UPS (AC).

2.1.7. Must have redundant rectifiers (DC).

2.2. Power Consumption Charging

2.2.1. Must be usage-based and must provide monthly billing based on consumption.

2.2.2. Must have a separate power meter.

2.2.3. Provide separate costing for power consumption.

2.3. Data Center Services

2.3.1. Location

2.3.1.1. Data Center must be located within five (5) kilometers from iGOV fiber splicing point.

2.3.2. Building Structure

2.3.2.1. Data Center building structure that is Seismic Zone 4 compliant (corresponding to highest earthquake-risk zone).

2.3.2.2. Must be free from flooding and water leaks.

2.3.2.3. Industry standard dedicated telecommunications and electrical grounding and anti-static flooring systems to protect equipment from electro-static discharge.

2.3.2.4. All equipment cabinets and racks housing computing equipment should be seismically braced and bolted to the ground providing stability and to guard against equipment damage.

2.3.3. Security, Access, and Site Availability

2.3.3.1. Must have two points of entry: front and back.

2.3.3.2. Physical access control mechanisms:

2.3.3.2.1. Special issue Proximity Card Readers; and

2.3.3.2.2. Biometric authentication and PIN entry for highly secured areas.

2.3.3.3. Man-trap doors equipped with Closed Circuit Television (CCTV) cameras and/or infrared sensors for highly secured areas.

2.3.3.4. Round-the-clock security force (stationed and roving) in the entire facility.

2.3.3.5. Video surveillance using high-definition CCTV security cameras monitoring and recording movements in all areas of the Data Center such as aisles, hallways and room spaces.

2.3.3.6. 24/7 controlled and supervised access for the installation, testing and maintenance of

co-located equipment.

2.3.4. Continuous Power Supply

2.3.4.1. Redundant and high availability of commercial power from two (2) separate paths.

2.3.4.2. Uninterruptible Power Supply (UPS) systems in parallel-redundant configuration efficiently distribute clean power throughout the computer/server rooms.

2.3.4.3. Capable of thirty (30) minutes back-up time considering 80% load or better.

2.3.4.4. Equipped with harmonic filters to eliminate power abnormalities (current spikes).

2.3.4.5. Failure of one (1) or two (2) UPS shall be backed up by the other unit without interrupting the critical load operation.

2.3.4.6. Fully redundant prime-duty Power Generators (N+1 configuration or better).

2.3.4.7. Maximum five (5) minutes activation lead time after commercial power failure.

2.3.4.8. Can ensure up to five (5) days continuous operation without commercial power.

2.3.5. Facilities Management

2.3.5.1. All building facilities should be centrally and automatically monitored via an Intelligent Facility Management System (FMS).

2.3.5.2. Automatic system alerts to Facilities personnel in the event of building equipment failure and 24/7 roving facilities inspection.

2.3.5.3. Redundant (N+1 configuration) or better commercial grade cooling systems.

2.3.5.4. Fire-suppression system that is environment and equipment friendly.

2.3.5.5. Equipped with automated fire detection and alarm system, discharge nozzles, manually discharge device, smoke detectors, horns, bells, and strobe lights throughout the facility; fire escape plan/route with exit signs provided.

2.3.5.6. The proposed data center must be certified with ISO 9001:2008 Quality Management Systems, ISO 27001:2005 Information Security Management Systems, and PEZA Accreditation.

2.3.6. Network Infrastructure

2.3.6.1. Must have fiber optic nodes from at least four (4) Internet Service Providers (ISPs).

2.3.6.2. Must provide 1 Gbps local transport from the Data Center to ASTI at CP Garcia Ave., UP Diliman, Quezon City, readily upgradable up to 100 Gbps, within two (2) month-notice.

2.3.6.3. DOST-ASTI shall be allowed to bring in its own fiber up to the DOST-ASTI designated rack inside the leased space in the data center at no additional cost from the nearest iGOV fiber splicing point. DOST-ASTI shall also be provided with an 8 RU space at the designated meet-me room in the data center.

2.3.6.4. DOST-ASTI shall be allowed to interconnect with other ISPs, inside the meet-me room, without any additional monthly cost.

2.3.6.5. Any future cross-connect requirements shall be allowed and charged based only on material and installation cost i.e., free from any

monthly charge.

2.4. Duration of the Contract

2.4.1. Contract shall be for twelve (12) months from the date of acceptance.

2.4.2. Contract is subject to renewal based on funds availability, as well as the Guidelines of Contract of Lease of Real Property and Guidelines on the Renewal of Regular and Recurring Services.

2.5. Site Inspection

2.5.1. As part of the evaluation process, a team from DOST-ASTI shall conduct a site visit to the data center.

2.6. Implementation or Work Schedule

2.6.1. To be submitted by the winning bidder and to be approved by DOST-ASTI. The winning bidder must provide a layout prior to implementation, subject to ASTI's approval.

2.7. The Winning Bidder must not be the existing provider for the Main Data Center for redundancy purposes.

3.0. RACK CABINET AND POWER DISTRIBUTION UNITS

3.1. The winning bidder shall also provide the rack cabinets that will contain the server and network hardware equipment.

3.2. The following specifications shall include minimum requirements, unless otherwise stated, to include all genuine parts, accessories, equipment and features considered standard whether mentioned herein or not:

3.2.1. Dimensions: 600 mm (Width) x 1991 mm (Height) x 1070 mm (Depth)

3.2.2. Doors and Panels: Single front door, 75% perforated and with lock; Split rear door, 75% perforated and with lock; Split side panels with lock.

3.3. The frame of the rack cabinets must be manufactured from welded steel.

3.4. The rack cabinets must have cable-entry provisions in the roof capable of accommodating 2500+ CAT5 cables.

3.5. The rack cabinets must have a central grounding point included.

3.6. The racks must be certified to be Restriction of Hazardous Substances (RoHS) and REACH compliant.

3.7. Each rack cabinet must be equipped with two (2) power distribution units with the following minimum specifications:

3.7.1. Twenty-four (24) IEC320 C13 outlets;

3.7.2. Input power rating: 250 VAC, 32 Amps; and

3.7.3. Resettable fuse: Two (2) 16 Amps LED display for showing Amperes and Volts measurement.

3.8. Warranty

3.8.1. Bidder shall ensure that the Power Distribution Units are free from defects and are operational during the entire duration of the contract.

4.0. TECHNICAL SUPPORT SERVICE

4.1. Round-the-clock Customer Support

	4.1.1. Must have available 24/7 Network Operations Center to provide remote hands and eyes and ensure immediate resolution of technical issues. 4.1.2. Remote hands and eyes include: 4.1.2.1. Equipment power cycle (hard or soft reset); 4.1.2.2. Cable patching to equipment (network or servers); and 4.1.2.3. Visual inspection of network equipment. 4.1.3. Shall honor monthly or annual access pass for DOST-ASTI authorized personnel. 4.1.4. Shall observe equipment quarantine to a maximum of ten (10) minutes. 4.1.5. Must provide equipment handling assistance from building entry going into the facility and vice versa. 4.2. Service Level Agreement 4.2.1. Winning bidder shall provide a Service Level Agreement that will be subject to DOST-ASTI's approval. 5.0. PAYMENT AND DELIVERY TERMS 5.1. The room space must be ready for occupancy within forty-five (45) days upon receipt of Notice to Proceed. 5.2. Monthly rental, as well as electricity consumption which is on top of the contract price, shall be billed to DOST-ASTI. 5.2.1. The service provider must provide monthly statement of accounts (SOAs). 5.2.2. The SOAs shall be delivered twenty (20) calendar days right after the billing cut-off.				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):					**Php 8,649,153.96**

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.