



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

| | | | |
|------------------|--|-----------------------------|----------------------------|
| Supplier: | CONVERGE ICT SOLUTIONS, INC. | PO No.: | 24-01-014 |
| Address: | New Street Bldg., Mc Arthur Highway, Balibago, Angeles City, Pampanga | PO Date: | January 29, 2024 |
| TIN: | 006-895-049-000 | Mode of Procurement: | Competitive Bidding |

Gentleman:

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

| | | | |
|---------------------------|---|-----------------------|---|
| Place of Delivery: | ASTI Bldg., C.P. Garcia Ave., U.P. Technology Park Complex, U.P. Campus, Diliman, Quezon City 1101 | Delivery Term: | Forty-five (45) calendar days upon issuance of NTP |
| Date of Delivery: | _____ | Payment Term: | Government Terms |
| | | Warranty Term: | _____ |

| Stock / Property No. | Unit | Description | Quantity | Unit Cost | Amount |
|----------------------|-------|--|----------|-------------|---------------|
| 1 | Month | <p>Lease of Room Space in Data Center Facility with Services (including Rack Cabinet Rental) Secondary Data Center</p> <p>1.0. GENERAL OVERVIEW</p> <p>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.</p> <p>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, cross connection fees, duties, etc.</p> <p>2.0. TECHNICAL SPECIFICATIONS</p> <p>2.1. Room Space and Network Requirements</p> <p>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.</p> <p>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.</p> <p>2.1.3. Must have separate pathways for power and network cabling of at least two (2) meters separation.</p> <p>2.1.4. Must have a redundant Precision Air Condition Units.</p> <p>2.1.5. Must have a redundant generator system.</p> <p>2.1.6. Must have a redundant UPS (AC).</p> <p>2.1.7. Must have redundant rectifiers (DC).</p> <p>2.2. Power Consumption Charging</p> <p>2.2.1. Must be usage-based and must provide monthly billing based on consumption.</p> <p>2.2.2. Must have a separate power meter.</p> <p>2.2.3. Provide separate costing for power consumption.</p> | 12 | ₱719,907.33 | ₱8,638,887.96 |

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

2.3. 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 from the date upon occupancy until 31 December 2024.

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.

(Please see attached offer.)

TOTAL:

P8,638,887.96

(Total Amount in Words)

Eight Million Six Hundred Thirty-Eight Thousand Eight Hundred Eighty-Seven Pesos and Ninety-Six Centavos Only

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,

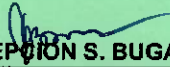
(Signature over Printed Name of Supplier)


FRANZ A. DE LEON, Ph.D. *B. De Leon*

Digitally signed
by Bayard
Benjamin R. Lara

Director, DOST-ASTI

(Date)

| | | | |
|---|-------------------------|------------------|-------------------------------|
| Fund Cluster: | <u>01</u> | ORS / BURS No.: | <u>D11011012024-01-000093</u> |
| | | ORS / BURS Date: | <u>JANUARY 30, 2024</u> |
| Funds Available: | <u>Php 8,638,887.96</u> | Amount: | <u>₱ 8,638,887.96</u> |
|  <u>GAY CONCEPCION S. BUGAGAO</u> Accountant III | | | |



29 January 2024

NOTICE TO PROCEED
PUBLIC BIDDING

Mr. JESUS C. ROMERO
 Chief Operations Officer
CONVERGE ICT SOLUTIONS, INC.
 New Street Bldg., Mc Arthur Highway
 Balibago, Angeles City, Pampanga

Dear Mr. Romero,

Notice is hereby given to **CONVERGE ICT SOLUTIONS, INC.** that work/delivery may proceed for the following procurement details:

| | | |
|---|-------------------------------|--|
| | Contract Name | : Lease of Room Space in Data Center Facility with Services (including Rack Cabinet Rental) Secondary Data Center |
| | Purchase Request No. | : INNOVATE-23-10-17990 |
| | Purchase / Work Order No. | : 24-01-014 |
| | Total Contract Price | : ₱8,638,887.96 |
| <hr/> | | |
| (inclusive of taxes, import duties and all other charges or fees) | Total Contract Price in Words | : Eight Million Six Hundred Thirty-Eight Thousand Eight Hundred Eighty-Seven Pesos and Ninety-Six Centavos |

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 covered by 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.
 Director

Digitally signed
 by Benjamin R. Lara
 DN: cn=Benjamin R. Lara

DATE OF ISSUANCE:
FEB 05 2024

RECEIVED BY:

WARRANTY SECURITY

Signature over Printed Name

Type of Warranty Security:

Amount of Warranty Security: ₱ _____

O.R. No.: _____

Date and Time

Postal Address : ASTI Bldg., U.P. Technology Park Complex,
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ASTI-FM 03-18
 REV 3 / 05 October 2023