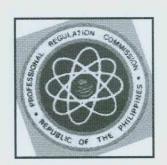


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GLENN I. PAJARON Member

CHRISTOPHER A. MAYO Member

LIEZEL F. BURAGA Member BID BULLETIN NO. 1 December 13, 2017

Name of Project:

Supply & Delivery of Goods and Services for the Rehabilitation of the PRC Data Center with an approved budget for the contract of Fifteen Million One Hundred Forty-Five Thousand Pesos (₱15,145,000.00)

Please be advised of the following modifications/amendments to the Bidding Documents.

- 1. Section VII. Technical Specifications (ANNEX "A") shall now read as follows:
- 2. Please take note of the schedule of BAC activities:
 - Submission of Bids on or before December 22, 2017/ 1:00 PM at the BAC Office, 3rd Floor, PRC Annex Building
 - Opening of Bids: <u>December 22, 2017/ 1:00 PM</u>
 Venue: <u>Conference Room, 2nd Floor, PRC Main Building</u>

Please be guided accordingly.

ATTY. ARISTOGERSON T. GESMUNDO
Assistant Commissioner

BAC Chairman



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"ANNEX A"

Section VII. Technical Specifications

I. Scope of Works

The project shall cover the delivery, installation, configuration, testing and implementation of the proposed, **REHABILITATION OF DATA CENTER FOR PROFESSIONAL REGULATION COMMISSION** which includes, but shall not be limited to the following:

- 1. Assessment of existing conditions
- 2. Rehabilitation of Cables and Servers
- 3. Delivery, installation and configuration of Secondary UPS and Environmental Monitoring Tool
- 4. Delivery, installation and configuration of required PDUs
- 5. Delivery, installation and configuration of air cooling system.
- 6. Delivery, installation and configuration of CCTV and Biometrics
- 7. Securing necessary work permits

A. Support Services

The winning bidder must provide support services necessary to ensure exchange of information and sharing of resources.

- 1. Project Management the winning bidder shall develop a Project Management Plan for the implementation of the proposed solution that is subject to the review and approval of PRC TWG upon implementation. The Project Management Plan shall include but shall not be limited to the following:
 - 1.1 Scope of Work
 - 1.2 Project Organization
 - 1.3 Implementation Methodology
 - 1.4 Project Schedule Timeline
 - 1.5 Communication and Deployment Strategy
 - 1.6 Capacity Building Program and Strategy
- 2. **Technical Support** the winning bidder shall provide and assign at least One (1) in house hardware support engineer for the duration of the project. This must be a registered Electronics Engineer. In absence, the engineer's qualification must be reviewed and approved by the PRC TWG.

B. Warranty

- 1. The proponent must provide a minimum warranty period of one (1) year for parts and labor from the time of the hardware delivery.
- 2. The warranty period shall only commence upon formal acceptance of the hardware and services products/solutions.
- 3. All Engineering Works (Mechanical, Civil/Architectural, Electrical, Electronics) must have designs signed and sealed by the engineering profession concerned to guarantee its safety.
- 4. All maintenance support shall commence upon the issuance of project certificate of final acceptance/signoff.

C. Maintenance and Support Plans

The winning bidder shall:

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- 1. Provide 24 x 7 onsite support for all critical problems reported and related to the proposed Data Center Rehabilitation components during its warranty period. Critical problems are defined as incidents which prevent PRC from successfully providing the IT systems using the proposed components included in this project.
- 2. Provide four (4) hours response time for hardware and related problems and issues.
- 3. Provide a 24 x 7 helpdesk phone and email technical support for noncritical events and incidents related to the proposed Data Center Rehabilitation Components.
- 4. Establish procedure on support and problem escalation.
- 5. Provide at least four (4) support personnel assigned during its implementation until the acceptance of the project.
- 6. Provide a one (1) year maintenance support for the proposed hardware including hardware components and services to include:
 - Online technical phone support 8 x 5;
 - NBD Response time; and
 - Environmental Services such as business planning and review, operational and technical advice and proactive support credits.
- 7. Provide a comprehensive Disaster Recovery Plan.

D. Documentation & Ownership

The winning bidder shall provide a complete documentation relevant to the project in soft and hard copies. The PRC shall own all documents and shall reserve the right to reproduce at no additional cost. This shall include:

- 1. Technical Manuals
 - As-built documents
 - Infrastructure Diagrams and Topology
 - Installation, Configuration and Deployment procedures
 - Single Line Diagram
- 2. Operational Manuals
 - User's Manuals (for Operations)
 - DRP

E. Project Management Control Plan/Guidelines

1. Project Management Methodology

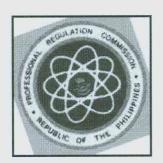
F. Delivery and Implementation

- 1. The winning bidder shall submit Manufacturer's Certification that you are a distributor or dealer /reseller of the offered product.
- 2. Supply, installation, deployment and configuration of deliverables shall be within one hundred twenty (120) calendar days from the receipt of Notice to Proceed (NTP).
- 3. All deliverables shall have one (1) year Hardware Warranty / 1 year Workmanship Warranty with online technical phone support 8 x 5.
- 4. All deliverables shall be installed in compliance with the manufacturer's instructions. PRC has identified core products that are approved for this installation. No substitutions will be allowed. This will ensure a quality installation, guarantee performance, and reduce on-going maintenance costs for the life of the solution



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G. Scope of Work (Civil/Architectural/Electrical Installation)

1. GENERAL REQUIREMENTS

- a. Design
- b. Mobilization/Demobilization
- c. Supervision

2. CIVIL WORKS/ARCHITECTURAL WORKS

- a. Demolition of existing wooden double wall partition to include hauling and disposal of debris.
- b. Installation of New Gypsum board on standard metal studs.
- c. Installation of aluminium framed glass doors and jamb to include new lockset and all accessories.
- d. Replace existing windows with CHB to include plastering.
- e. Painting of new and existing masonry wall and apply proper preparation and 2 coats latex semi-gloss paint new Gypsum board drywalls.
- f. Remove the existing ceiling.
- g. Install new ceiling-mineral fiber bound on aluminum powder-coated T-runners.

3. ELECTRICAL WORKS

- a. Remove existing wires and cables
- b. Roughing-Ins conduits
- c. Install Wires and cables (inter rack)
- d. Install Panel board Transformer & ECB
- e. Install Lighting Fixtures

4. MECHANICAL WORKS

- a. Installation of new A/C system
 - i. Installation of one (1) 10TR PACU Single owners supplied.
 - ii. Supply and installation of One (1) lot mechanical and electrical materials such as IMC pipes, copper pipe type L, fittings, liquid tight, and condensate pipe.
 - iii. Supply and use One (1) lot consumable items such as nitrogen, acetylene, oxygen, welding sulfurs rods.
 - iv. Leak testing and dehydration of A/C system.
 - v. Charging of refrigerant gas (R-410A)
 - vi. One (1) lot supply and installation of ACCU Pedestal
 - vii. One (1) lot Hauling & Positioning
 - viii. Start-up and commissioning of A/C system.
 - ix. Labor and engineering supervision.

b. Relocation of existing A/C system

- i. Relocation and installation of existing FCU Unit owner supply.
- ii. Supply and use of one (1) consumable material such as PVC conduits, copper pipes, fittings, rubber insulation 3/4 thk., thhn wires, condensate pipe
- iii. Leak testing and dehydration.
- iv. Charging of Refrigerant gas(R-410A)
- v. Start up and commissioning of system.
- vi. Labor and Engineering supervision.



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5. CABLING WORKS

- a. Relocation of 4 Data Cabinets from existing Server room to new proposed server room
- b. Relocation of Existing Server to Propose Server room
- c. Supply of new cables
- d. Design must be signed and sealed by a PECE

6. SECURITY AND FIRE SUPPRESSION WORKS

- Supply and Installation of CCTV
- b. Supply and installation of Fire Suppression
- c. Mobilization and Project Coordination
- d. Delivery of Local Materials at site
- e. Layout of Wiring and Cable Pulling
- f. Delivery of Imported Equipment
- g. Mounting & Installation of devices.
- h. Tapping and Testing of equipment.
- i. Set-up, Configuration and Programming of Security Software.
- j. Commissioning and Punch list of equipment installed.
- k. Training of authorized user.
- I. Turnover of the system
- m. Design must be signed and sealed by a PECE

Actual conditions subject to site inspection and verification.

II. Technical Specifications

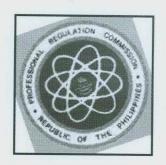
1.1. Uninterruptible Power System (on-line)

- Capacity: 1 unit 30KVA/27kW
- Input Nominal Voltage(V): 380/400/415
- Input voltage range(V): 305~477 at full load; 228-477 at 70% load
- Nominal input frequency(Hz): 50/60
- Input frequency range(Hz): 40-70
- Input power factor(kW/kVA): 0.99
- By pass voltage tolerance(%): selectable from +20 to -40
- By pass frequency tolerance(%): ±20 (±10 selectable)
- Battery
- Number battery blocks per string: 30-40
- Battery Charger max. Power (kW): 6
- Output
- Nominal output voltage (V): 380/400/415 (3-phase) or 220/230/240 (1-phase)
- Nominal output frequenzy (Hz): 50/60
- THDv with 100% linear load (%): 2
- Inverter overload capacity: <105% Continuous; 125% for 5mins;
 150% for 1min
- Back-up time 30 minutes
- Efficiency
- Online mode efficiency: Up to 95.5%
- ECO mode efficiency: Up to 99%
- Dimensions and weight
- Dimendions (W x D x H) mm: 600 x 850 x 1600
- Weight(net weight): 210
- General



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• Protection level IEC (60529): IP20

General and safety requirements for UPS: EN/EIC/AS 62040-1

• EMC requirements for UPS: EN/IEC/AS 62040-2

UPS classification according to IEC 62040-3: VFI-SS-111

1.2. Power Distribution Unit (PDU)

Size(L x W x Hmm): 1321 / 1261 x 44.4 x 62mm

Mounting Length: 1297 / 936mm

• Installation: Vertical, Mounting Buttons

Color: Black

Compliance: CE, RoHS

Input Voltage and Frequency: 250V~

Cable Input: 3 x 6.0mm² x 3M

Input Plug: Without Plug (since Fixed it's input is bare wires)

Output Voltage and Frequency: 250V~ 50/60Hz

 Outlet Style: 20way IEC320 C13 with anti-fall & 4way IEC320 C19 standard socket

Rating Current: 32A

Overloads Protection: 2way 16A 250V (with indicator)

Max. Current: 32AMax. Power: 8000W

1.3. Environmental Monitoring System

- The user interface shall be provided via web browser without the need for any additional installation of software on the client computer.
- The management solution needs to communicate with Modbus 485, Modbus/IP, BACnet MSTP, BACnet/IP, and SNMP Protocols.
- 1 port needs to communicate to a maximum of 4 high-level equipments but 1 whole device needs to support a total of 32 highlevel equipments in total. The support of 4 equipments in 1 daisy chain loop will minimize traffic on the multi-drop connection.
- Must be able to gather all alarms into 1 screen.

1.4. Data Center Management

- With high level protocol management (modbus-485 com ports &
- SNMP support)
- Integrated monitoring system that supports temperature/humidity,
- Power, fire suppression system, access control

1.5. Precision Air Conditioning Unit (PACU) System

- Nominal Capacity: 40kW
- Configuration: Down flow | Air-Cooled | R407C
- With ultra-high efficiency, reliability, flexibility and low cost whole life.
- Modular design, optimized airflow inside the cabinet, easy dismantling and easy handling.
- Removable handling structure, 100% positive maintenance, saving room floor space.
- Efficient scroll compressor for refrigerants.
- Ultra-efficient EC fan, adjustable air volume depending on the room load.



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- Large modular V-type evaporator, the dispenser nozzle and sophisticated design to ensure energy saving.
- Unique efficient far-infrared humidification system, wetting speed, adapt to poor water quality, low maintenance.
- Full Chinese LCD graphic display, the powerful joint control and communication functions.
- Speed air-cooled condenser, low noise.
- Electronic water flow adjusting means, precisely regulated to ensure optimal operation unit.
- R485 comes standard monitoring interface, which provides a variety of monitoring methods.
- Networking multiple units, the use of energy-efficient management and joint control, optimal energy efficiency.
- Must be able to do logical programming for Thermal load balancing.
 Will need to use high-level protocol to control different brands/models of Precision Air Conditioning Unit (PACU) and capable of Auto Change-over, Auto Sequencing, Fail Safe Modes

1.6. CCTV System

a. VIDEO RECORDER & MONITOR

- 8 Channel Network Camera can be connected
- with incoming bandwidth of 25M/50M/100M
- with video output of VGA and HDMI with resolution of 1920x1080P
- supports third party cameras
- up to 2 SATA interfaces (4tb for each disk capacity)
- support network detection(includes network delay and packet loss)
- Recording solution of QCIF/CIF/2CIF/DCIF/4CIF/VGA/720p/1080p/3MP/5MP
- with 12 V DC 10W power consumption

b. CAMERAS & POWER SUPPLY

- Five (5) CCTV 2MP Dome Camera
- 1/2.8" Progressice Scan CMOS
- with Min. Illumination 0.01Lux@(f1.2, AGN ON) and 0 Lux with IR
- with shutter speed of 1/3 s to 1/100,00 s
- with an angle view of 106°(2.8mm), 85°(4mm), 52°(6mm)
- with IR 10 to 30 meters range(IR cut fileter with auto switch)
- support dual stream
- PoE(Power over Ethernet)
- IP 66 rating; IEC60068-2-75 TEST; Eh, 20J; EN50102, and IK 10 rating
- Support two wy audio
- support audio I/O
- support wifi
- with built in micro SD/SDHC/SDXC card slot, up to 64 GB
- Support rotate mode function, alarm, mirror, reset button Intrution detection and ine crossing detection
- with WDR, 3D DNR
- ONVIF/PSIA/CGI/ISAPI standard



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 Layout of wires, mounting of equipment, termination, testing and commissioning

Training of authorized personnel

1.7. Biometrics Access Control System

- Complete standalone operation without PC connection.
- Fingerprint sensor 500dpi optical sencor.
- 200 users capacity(400 fingerprint templates).
- Operation modes : Fingerprint, PIN, Fingerprint + PIN
- Graphic LCD and keypad for easy user interface.
- Built-in relay and switch input for direct lock interface.
- IP65 class
- Multi-color LED and multi-tone buzzer
- Log storage for audit trail.
- 12v DC
- Compact, slim and elegant design.

1.8. Fire Alarm and Suppression System

- Extinguishes fire rapidly, minimizing collateral damage
- Human-friendly gas
- NOAEL (9%) is 144% of design concentration (6.25%)
- LOAEL (10.5%) is 168% of design concentration (6.25%)
- Recognized by the U.S. Environmental Protection Agency's Significant New Alternatives Program (SNAP)
- Has a zero ozone depletion potential
- Low global warming potential of 3800
- Uses less storage space than any of the competitive inert gas agents
- Minimum design concentration for Class "A" combustibles 6.25 up to 7%
- Requirements based upon achieving the minimum design concentration in entire enclosure
- Enclosure must be tight enough to achieve concentration.
- Mechanical ventilation must be controlled/shut down or dampers must be installed to isolate the hazard
- Maximum design concentration of 9% should not be exceeded when humans are present unless egress can be assured in 10 minutes or less
- Clean agents are stored as a liquid in cylinder assemblies designed for this purpose.
- Cylinders are charged with the clean agent to a maximum filling density of up to 70 lb./ft.3 (1121 kg/m3) of cylinder volume.
- Each cylinder is super-pressurized with dry nitrogen to 360 psi (24.8 bar) to ensure optimal performance
- All cylinders are equipped with an identification nameplate indicating the initial fill quantity of the clean agent.

1.9. Data Center Facility Signanges and Emergency Lighting System

- LED exit light red
- Facility Signage's (pull/push, entrance/exit, authorized personnel

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- Only, no eating, no Smoking, danger high voltage)
- Emergency lightning system

1.10. Structured Cabling (inter rack)

- 60 nodes CAT6
- 90 nodes Fiber pairs
- 2ft. Wall Mounted Data Cabinet with 24 ports patch pannel, Cable ladder 4" x 12" Powder coated and Horizontal Cable manager2U, including LAN termination, testing and commissioning.

1.11. Data Cabinet and Rack Accessories (7 pcs of racks)

- Size(H x W x Dmm): 42U x 600 x 1090
- Protection Category: IP20
 Door Perforation rate: 75%
- Otatial and Council 11 1 101
- Static Load Capacity: Up to 1300kg
- Packing: Flat packed in carton or bulk packed
- Must have:
- Perforated Doors with lock and key
- Split side panels
- EIA mounting rails 19" x 4
- Leveling feet (4pcs.)
- Color black
- Curved front door
- Rack frame
- Top cover
- Cage nuts, wacher, and screw (50 sets)
- Vertical cable panels for cable and mounting of PDU (2 pcs.)
- Rack Connectors (2sets = 4pcs per rack)
- 1. Compliance with the statements must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate.
- 2. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection.
- 3. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1 (a) (ii) and/or GCC Clause 2.1 (a) (ii).

ACKNOWLEDGMENT AND COMPLIANCE
WITH THE TERMS OF REFERENCE FOR THE
PROCUREMENT OF PABX SYSTEM FOR PRC CENTRAL OFFICE

SIGNATURE OVER PRINTED NAME
OF AUTHORIZED REPRESENTATIVE,
DESIGNATION AND PRINTED NAME OF COMPANY