



DEPARTMENT OF FOREIGN AFFAIRS  
KAGAWARAN NG UGNAYANG PANLABAS

BIDS AND AWARDS COMMITTEE  
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**SUPPLEMENTAL / BID BULLETIN No. 1**

Project : Procurement of Data Center Rehabilitation Services  
Reference : PB-GS-21-2021  
ABC : PhP 6,000,000.00  
Date : 14 December 2021


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This supplemental/bid bulletin is being issued to provide prospective proponents/bidders information on the following changes to the Bidding Documents:

- I. **Invitation to Bid (Section I)** – The Invitation to Bid (Section I) of the Bidding Documents is superseded by ANNEX 1 of this Supplemental/Bid Bulletin No. 1.
  
- II. **Technical Specifications (Section VII)** – Taking into consideration the comments of the Committee and the prospective bidders, the Technical Specifications (Section VII and annexes) of the Bidding Documents are hereby superseded by ANNEX 2 of this Supplemental/Bid Bulletin No. 1.

The Bidding Documents are amended accordingly.

For the information and guidance of all concerned.

  
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NARCISO T. CASTAÑEDA  
Assistant Secretary and BAC Chairperson

# ANNEX 1

6. The DFA-BAC has scheduled the following activities for the said Project:

<b>Post-Qualification</b>
<b>29 December 2021,</b> Wednesday, 10:00 <del>p.m.</del> <b>a.m.</b>
Venue: Bids and Awards Committee (BAC) Conference Room, 12th Floor, DFA Main Building, Roxas Boulevard, Pasay City and Online Video Conference

## ANNEX 2

# Technical Specification Data Center Rehabilitation Services

		STATEMENT OF COMPLIANCE
<b>I.</b>	<p><b>BACKGROUND</b></p> <p>The DFA data center needs rehabilitation to have efficient cooling for the servers and other information and communications technology (ICT) devices.</p> <p>The project shall upgrade the cooling from comfort type to a right sizing of cooling system designed for the data center room.</p> <p>The rehabilitation project shall include but not limited to the following:</p> <ol style="list-style-type: none"> <li>1. repositioning of servers, network switches and other ICT devices;</li> <li>1. data cable harnessing and grooming;</li> <li>2. harnessing and grooming of existing electrical cables;</li> <li>3. replacement of back drywall with fire rating protection of up to 2 hours; and</li> <li>4. replacement of drywall facing the server and network racks with tempered glass wall</li> <li>5. Installation of Transformer in the Data Center</li> </ol>	
<b>II.</b>	<p><b>OBJECTIVE</b></p> <p>The Department shall enhance its data center infrastructure at the DFA main building by acquiring the following for improvement:</p> <ol style="list-style-type: none"> <li>1. Inter-rack data cabling and electrical wiring connections</li> <li>1. Cable grooming of wires connected to the walled electrical outlets</li> <li>2. Data cable harnessing</li> <li>3. Drywall with 2 hours fire protection, both wall and door shall be tempered glass</li> <li>4. Dismantling of the existing comfort coolers within the data center room including additional Freon injection should the Department require to reuse it as backup units</li> <li>5. A total of six racks for data equipment to be replaced with a single brand to establish uniformity and aesthetic perspective</li> <li>6. Anti-static vinyl tiles supply and installation with wire mesh and proper grounding system</li> <li>7. Drop ceiling improvement</li> <li>8. Lighting fixtures improvement</li> <li>9. Supply and delivery of new computer room air conditioning system (in-row)</li> <li>10. Mechanical works for the installation of the new Data Center room air conditioning system from the data center room up to the approved location of the outdoor unit to be located at the roof deck.</li> </ol>	

	During the rehabilitation there should be minimal downtime that can be scheduled on weekends or weekdays with prior approval from the Department.	
<b>III.</b>	<b>CONTRACTOR'S QUALIFICATIONS</b>	
	<p>The Contractor shall have at least:</p> <ol style="list-style-type: none"> <li>1. Five (5) years of experience in IT-related business operations;</li> <li>2. Be a Certified Partner for all the brands being offered for at least three (3) years;</li> <li>3. Submit the following certifications issued by the manufacturer: <ol style="list-style-type: none"> <li>a. Endorsing the Contractor to bid, sell, support and maintain the product being offered;</li> <li>b. Stating that all equipment are brand new and up to date.</li> </ol> </li> <li>4. Provide technical engineers with the following qualifications: <ul style="list-style-type: none"> <li>• Two (2) Cisco Certified Network Associates (CCNA)</li> <li>• One (1) Licensed Electrical Engineer</li> <li>• One (1) Certified Data Center Specialist (CDCS)</li> <li>• Two (2) Certified Data Center Professionals (CDCP)</li> </ul> </li> <li>5. Provide Project Management Professional (PMP) Certificate;</li> <li>6. Have Philippine Contractors Accreditation Board (PCAB) License <ol style="list-style-type: none"> <li>a. For Airconditioning and Refrigeration works- small B</li> <li>b. For fire protection work – Small B</li> <li>c. Communication facilities – Small B</li> </ol> </li> <li>7. Provide a Certificate for after sales Service and Support</li> </ol>	
<b>IV.</b>	<b>CONTRACTOR'S RESPONSIBILITY</b>	
	<p>The Contractor shall:</p> <ol style="list-style-type: none"> <li>1. Replace and install the drop ceiling and improve lighting fixtures</li> <li>2. Electrical and data cable harnessing and grooming with cable trays.</li> <li>3. Network cabling from basement to 10<sup>th</sup> floor with PVC pipe protection</li> <li>4. Installation and configuration of network devices</li> </ol>	

	<ol style="list-style-type: none"> <li>5. Replacement of existing walls in front of racks with tempered glass.</li> <li>6. Installation of new fire-rated dry wall (2 hours)</li> <li>7. Dismantle the two existing comfort coolers within the data center room.</li> <li>8. Install the new air conditioning unit</li> <li>9. Install Anti-static vinyl tiles with wire mesh and proper grounding system.</li> <li>10. Door access control system with RFID</li> <li>11. Ensure inter-rack power cables are in proper installation</li> <li>12. Inter-rack data cabling works from core switch, patch panels, network and servers to ensure good network connectivity.</li> <li>13. Supply and installation of transformer in the Data Center connecting to the existing UPS</li> <li>14. Conduct testing and commissioning prior to turnover</li> <li>15. Contractor should provide proper training to/for DFA personnel on all system to be installed.</li> <li>16. Contractor should provide all relevant manuals or documents for the systems installed</li> <li>17. The contractor should provide the proposed and as built schematics/diagrams for the system installed.</li> </ol>	
<b>IV.</b>	<p style="text-align: center;"><b>Technical Specifications</b></p> <p>The Contractor shall supply, deliver, install and configure the following equipment:</p> <p><b>Two (2) Door Access Control</b></p> <p>At least with working:</p> <ol style="list-style-type: none"> <li>1. Keypad;</li> <li>1. Finger print scanner;</li> <li>2. Database log; and</li> <li>3. RFID</li> </ol> <p><b>Transformer</b></p> <ol style="list-style-type: none"> <li>a. CAPACITY: 100KVA TYPE: Dry type / Isolation PHASE: 3Phase RATED FREQUENCY: 50 to 60 Hz</li> </ol>	

PRIMARY VOLTAGE: 440 V Delta  
SECONDARY VOLTAGE: 400 V Wye with Neutral  
CONDUCTOR TYPE: Aluminum Winding  
INSULATION: Class H  
CONSTRUCTION: Floor Mounted in NEMA-1 Enclosure  
(INDOOR TYPE)  
DIMENSIONS: (Approx) 34"H x 20"W x 22"D  
WEIGHT: (Approx) 300kgs

### **Air Conditioning Units**

1. Two (2) units, 5 TR Cooling Capacity, Fan Coil Unit (FCU), Floor mounted type, 220V/1P/60HZ with nominal air flow rate - Low: 24 m3/min, Medium: 28 m3/min, and High: 32 m3/min. Using environment-friendly refrigerant, R-410A with remote wire controller.
- Two (2) units, 5 TR Cooling Capacity, Air Cooled Condensing Unit (ACCU), Scroll type Compressor, Inverter type, utilizing R-410A Refrigerant, 220V/1P/60HZ
  - Sizing of wires, conduits, disconnect switches, and main circuit breakers depends on the actual rating of the Air Conditioning Units and are computed based on the PEC Standards.
  - Complete electrical rewiring works for the supply of Indoor and Outdoor Units (From Roofdeck EE Room to Basement Server Room) (Subject for inspection of Engineering personnel)
  - Supply and installation of new Thermoplastic High Heat-Resistance Nylon coated (THHN) Copper Wire & cables (including connectors, tapes, etc)
  - Supply and installation of new Grounding wire (must be: Thermoplastic High Heat-Resistance Nylon coated (THHN) Copper Wire)
  - Supply and installation of new Conduit Works (must be: Intermediate Metal Conduit (IMC). Including all necessary fittings, supports, painting works, fire retardant sealants, and other accessories, in place
  - Removal of old wires and conduits including fittings, supports and other accessories in place
  - New Main Circuit Breakers and Disconnecting Switches (Including all necessary fittings, supports, painting works, fire retardant sealants, and other accessories, in place)
  - All Main Circuit breakers are in NEMA 3R enclosure and the Disconnect Switches are weatherproof for outdoor units.

	<ul style="list-style-type: none"> <li>• Miscellaneous Materials (Hard drawn copper tubing, Type "L" and fittings, PVC pipe and fittings, one inch (1") thick closed cell insulation, aeroflex or equivalent, polyethylene tape, electrical tapes and other materials and accessories as required to complete the system.)</li> <li>• Equipment mobilization.</li> <li>• Install Indoor/outdoor unit at the location indicated on the approved plans. Exact location as approved, may vary during actual installation [+ or - (one) 1 meter] of equipment if necessity warrants. Provide vibration isolators. Fabricates/provides a well-designed based/stand or brackets to ensure safe and reliable system operation.</li> <li>• Install outdoor units at roof deck along with the existing installed outdoor units. Exact location may vary during actual installation [+ or - (one) 1 meter] of equipment if necessity warrants. Fabricate angular metal (50mmx50mmx5mm) base/stand and metal support brackets.</li> <li>• Perform pipe laying (Hard drawn copper tubes type "L") and system interconnectivities / welding works.</li> <li>• Install Condensate Drain Pipe (PVC pipe, 1-inch-thick closed cell insulation, polyethylene tape) and its hanger and support system. Tap to the nearest approved drain line.</li> <li>• Conduct electrical installation using appropriate electrical breakers, wires, conduits and other electrical materials to ensure safe and reliable system operations.</li> <li>• Conduct leak testing.</li> <li>• Insulate the refrigerant suction lines and condensate drain lines by 1-inch-thick closed cell insulation.</li> <li>• Vacuum individually the system.</li> <li>• Break vacuum and charge initial R410A Refrigerant.</li> <li>• Perform flushing on each of the split package type A/C System installed at the subject area.</li> <li>• Recharge system to full charge condition with R410A.</li> <li>• Operate system and take operating data to serve as a guide for needed re-calibration and/or corrective service/s.</li> <li>• Conduct final testing and commissioning.</li> </ul>	
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	<p><b>Network Cabling and Configuration:</b></p> <p>A. Two (2) 256 Gbps on 48-port Gigabit Ethernet model, Data only</p> <ul style="list-style-type: none"> <li>○ Stacking bandwidth: 480 Gbps</li> <li>○ Total number of MAC addresses: 32,000</li> <li>○ Total number of IPv4 routes (ARP plus learned routes): 32,000 (24,000 direct routes and 8000 indirect routes)</li> <li>○ IPv4 routing entries: 32,000</li> <li>○ IPv6 routing entries: 16,000</li> <li>○ All included accessories and cables must be compatible with the switch</li> <li>○ With 3 years license and warranty</li> <li>○ Network devices must be manageable with existing Cisco Smart Account and Admin console.</li> </ul> <ul style="list-style-type: none"> <li>● Four (4) 10GBASE-SR SFP Module SFP-10G-SR</li> <li>● Two (2) 8x 10G Network Module</li> <li>● Two (2) fiber optic backbone from basement datacenter to 10<sup>th</sup> floor datacenter</li> <li>● One (1) CAT-6 back up backbone from basement datacenter to 10<sup>th</sup> floor datacenter</li> <li>● Configuring of network switches</li> <li>● Relocation of servers and other devices</li> </ul>	
	<p><b>Fire Suppression</b></p> <ol style="list-style-type: none"> <li>1. 4 Zone Conventional FACP 220V</li> <li>2. 24VDC, photoelectric smoke detector head (No Reed Switch)</li> <li>3. 2 wire, 6" Detector Base, 24VDC</li> <li>4. Wall Mount Horn/Strobe, 24VDC, 15/30/60/75/110CD, 100dBA@10', RED</li> <li>5. Pull Station for Fire Suppression Release</li> <li>6. 6" Motor bell (UL)</li> <li>7. Abort Switch</li> <li>8. Disable Switch</li> <li>9. Battery Back Up</li> <li>10. Cylinder Novec 1230 Fluid 250 lb Assembly (Fill Range 126-252lbs)</li> <li>11. Bracket Cylinder 16 Inch Kit (250 lb 420 lb Cylinder)</li> <li>12. MV Completer Kit</li> <li>13. Nozzle 360 1-1/2 (40mm) Brass</li> <li>14. Agent Novec 1230 Fluid</li> <li>15. Roughing-ins, Pipe (Electrical and Mechanical)</li> </ol>	



	<p><b>Environment Monitoring System:</b></p> <ol style="list-style-type: none"> <li>1. Monitors the physical environment and receive alerts for at least any disturbances, such as: <ol style="list-style-type: none"> <li>a. unauthorized intruders;</li> <li>b. security breaches;</li> <li>c. high temperatures;</li> <li>d. smoke;</li> <li>e. water leakages; and</li> <li>f. power outages</li> </ol> </li> <li>2. Includes six (6) sensors of each: <ol style="list-style-type: none"> <li>a. Single Port Temperature and Humidity sensor 5ft cable</li> <li>b. AC Voltage with 5 ft cable</li> <li>c. Rope Water Sensor 30 feet. Composed of sensing module, plus standard 20 feet non-sensing cable, plus 30 feet sensing rope</li> <li>d. Smoke Detector</li> </ol> </li> </ol>	
	<p><b>UPS and Aircon maintenance and Response Time</b></p> <ol style="list-style-type: none"> <li>1. Provide quarterly scheduled preventive maintenance visits of the new Data Center Room with 24x7 on-call and on-site service within 4 hours upon receipt of breakdown call of UPS and Transformer.</li> <li>2. Provide quarterly scheduled preventive maintenance visits of the new Data Center Room with on-call and on-site service within 4 hours upon receipt of breakdown call of Airconditioning Units.</li> </ol>	
	<p><b>Warranty:</b></p> <p>The Contractor shall provide:</p> <ol style="list-style-type: none"> <li>a. Three (3) years warranty on parts and services commencing after complete turnover of project; and</li> <li>b. Updates and patches for the license subscriptions and software components for all equipment for a period of three (3) years after complete turnover of project.</li> </ol>	
	<p><b>Confidentiality</b></p> <ol style="list-style-type: none"> <li>1. The Contractor shall ensure that each of its personnel assigned to provide support service for the Data Center Rehabilitation will execute and sign a Non-Disclosure Agreement to be submitted to the Department prior to commencement of the service.</li> <li>2. The Contractor shall not disclose any confidential information accessed through the use of its services in relation to the official functions or operations of the Department without prior consent from the latter.</li> </ol>	

	<p>3. The Contractor shall immediately inform the Department of breaches, attacks or other form of cyber threats/activities that may contribute to disclosure of any confidential information.</p> <p>4. Failure to comply with the confidentiality clause shall be subject to penalties as provided in Republic Act No. 10173 – Data Privacy Act of 2012 and all other relevant rules and regulations.</p>	
	<p><b>Duration and Delivery</b></p> <ul style="list-style-type: none"> <li>• The Contractor shall deliver and install/configure the licenses within <b>ninety (90)</b> calendar days from the receipt of the Notice to Proceed (NTP).</li> </ul> <ol style="list-style-type: none"> <li>1. The Contractor shall provide one-year warranty and one-year maintenance support services.</li> <li>2. The Contractor shall provide phone, email and onsite support/assistance whenever required.</li> <li>3. The Contractor should provide direct support/assistance for installation and upgrade requirements.</li> </ol>	
	<p><b>Payment</b></p> <p>A. The Contractor shall be paid within Sixty (60) calendar days upon the submission of the sales invoice, or its equivalent complete with supporting documents examined by the Office of Financial Management Services-Financial Resource Management Division (OFMS-FRMD). Payments shall be made through List of Due and Demandable Accounts Payable (LDDAP).</p> <p>All payments shall be inclusive of all applicable taxes and other lawful charges.</p>	

Note:

Bidder must state compliance to each of the provisions in the Terms of Reference/Technical Specifications, as well as to the Schedule of Requirements. The Statement of Compliance must be signed by the authorized representative of the Bidder, with proof of authority to sign and submit the bid for and in behalf of the Bidder concerned. If the Bidder is a joint venture, the representative must have authority to sign for and in behalf of the partners to the joint venture. All documentary requirements should be submitted on or before the deadline for the submission of bids.

Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” 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. 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. 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)

Conformé:

[Signature/s]

[Name of the Bidder/ Bidder's Authorized Representative/s]

[Position]

[Date]