



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Philippine Atmospheric, Geophysical and Astronomical Services
Administration (PAGASA)

19 December 2022

SUPPLEMENTAL BID BULLETIN
ADDENDUM NO. 2022-043-01

Subject: Supply, Delivery, Installation, Testing, Training and Commissioning of Modular Operation Disaster Recovery Facility (Reference No. 2022-10-0839 / IB No. 2022-043)

This Bid Bulletin is being issued to all prospective bidders to clarify, amend and/or modify certain provisions in the Bidding Documents and to answer the written clarificatory questions submitted by prospective bidders, to wit:

I. Queries from: **TEKZONE COMPUTER SALES AND SERVICES, INC.**

<p>1. Power System: Rackmount 2U 15kVA</p> <p>Suggestion: Rackmount 3U 15kVA</p>	<p>The specifications in the TOR represent the minimum technical specifications. Thus, the interested bidder/s may be allowed to present alternative offer that is compliant and responsive to the specific requirements of the Project.</p>
<p>2. IT Rack System: 8 racks x 8kW per rack, a total of 64kW</p> <p>Suggestion: 2*9W rack +6*6kW rack, a total of 54kW</p>	<p>TOR E.1 Item B point 3. e, p4, is hereby amended as follows:</p> <p>From: "e) Rack power distribution must have a minimum of 8kW per rack "</p> <p>To: "e) Rack power distribution must have a minimum of 6kW per rack "</p>
<p>3. Environmental Monitoring System: Fire protection required is HFC227ea</p> <p>Suggestion: FK5112</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>4. Hyper-converged Server System: With 4 x 480G SSD, 1 x 1.9TB SSD NVMe, 6 x 2.4TB HDD Enterprise</p> <p>Suggestion: Option 1:2 x 600GB SAS for OS disk; 1 x 3.2TB NVME; 7 x 2.4TB SAS disk</p> <p>Option 2:2 x 600GB for OS disk and 6 x 3.2TB NVME for capacity</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>

"tracking the sky...helping the country"

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II. Queries from: **ONE COMMERCE (INT’L) CORPORATION**

<p>1. TOR Item D p2</p> <p>May we know if the existing Network Diagram of the FOC layout will be used or if it will be interconnected in one FOC backbone on sites?</p>	<p>Please refer to letter G. page 6 of the TOR</p>
<p>2. TOR Item B.7 p4</p> <p>May we request the location of the Server, and the location of IDF per cabinet for the existing and proposed power tapping source? In addition, can we use the existing IDF?</p> <p>If yes, may we further request the details of the available RU space?</p>	<p>Please refer to letter H. page 6. of the TOR. You may coordinate with the Project end user unit and the PAGASA Engineering and Technical Services Division (ETSD) representative thru the BAC Secretariat.</p>
<p>3. TOR Item 1.A.4 p3</p> <p>How many CCTV cameras and door Access should we include?</p>	<p>There should be a minimum of 8 CCTV cameras and 2 door access. (2 cameras inside, 1 on each side, and 2 to the office and storage container van.</p>
<p>4. TOR Item 1.B.4 p4</p> <p>Can we request the existing Fiber Optic Backbone Layout or HLD Design for Network Connectivity?</p>	<p>Refer to letter G. page 6. of the TOR</p>
<p>5. TOR Item 2 p4</p> <p>May we know the number of offices and workstations should we consider for this requirement?</p>	<p>Please refer to number 6 page 5. of the TOR</p>
<p>6. TOR Item 2 A.3 p5</p> <p>May we request HLD and Single Line Diagram for the FDAS Fire Suppression, Electrical, and Rack Allocation RU?</p>	<p>Please refer to letter H. page 6. of the TOR</p>
<p>7. TOR Item G p6</p> <p>May we request a detailed plotting of the Data Cabinet, PACU, ACU, Furniture per container, and floor plan scale with measurements for computation reference?</p>	<p>Please refer to general requirements Page 6 of the TOR</p>

III. Queries from: PINNACLE TECHNOLOGIES, INC.

<p>1. Annex A page 1 of 1</p> <p>May we clarify what is the meaning of the "20~45Deg" specification requirement? Does it refer to temperature with degree Celsius as the unit?</p> <p>May we ask, what is the meaning of "CE system" specification requirement?</p>	<p>Yes, it is Celsius as a unit for temperature.</p> <p>SPD Certification.</p>
<p>2. TOR A p8</p> <p>We would like to inquire if the additional 40-footer customized office container van and the prefabricated all-in-one data center be stacked together to form a two-floor structure?</p>	<p>The additional 40-footer customized office container van and the prefabricated all-in-one data are to be installed in L position side by side and not to be stacked together.</p>
<p>3. TOR E.1 Item B point e, p3</p> <p>May we request to revise the requirement and rephrase as "Two sets of rackmount UPS with 5 nodes of 2U 15kva power module?"</p> <p>This will benefit PAGASA with more flexible and granularly capacity expansion in the future, will adopt with rackmount modular UPS with 2U 15kva power module, 5 nodes is for at least 60kva full load capacity with high performance battery backed up in 2 (N+1) redundancy.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>4. TOR E.1 Item B.1 point g, p3</p> <p>May we request to revise the requirement and rephrase as "Minimum power capability supply of 15 kilowatts?"</p> <p>The minimum power capability supply of UPS should be the same with the capacity of UPS power module, which is 15kilowatts as stated in point e "Rackmount 2U 15kva 2 node"</p>	<p>Minimum power capability supply of 15 kilowatts per node.</p>
<p>5. TOR E.1 Item B.3 point b, p3</p> <p>May we request to revise the depth requirement from 1000mm to 1200mm, and rephrase as "External dimensions must have at least 600w x 1200D x 2000H (mm), with perforated, split front & rear door, and detachable sidewalls?"</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>

<p>This standard depth of an IT rack is 1200mm. An IT rack with 1000mm depth is not suitable for servers.</p>	
<p>6. TOR E.1 Item B.7, p3</p> <p>May we proposed to add this feature:</p> <p>“i) The unified management and operation of computing, storage, network, security and other resources can be realized on the unified HCI management platform. All operation can be realized without interface jump.”</p> <p>The benefit of this feature is it will help to reduce the difficulty of operation and maintenance, which is a basic requirement of the industry.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>7. TOR E.1 Item B.7, p3</p> <p>May we proposed to add this feature:</p> <p>“j) Support using one click mouse button to analyze the use of historical resources of virtual machine and host, and provide data support for planning and decision making, provide screenshots of product functions.”</p> <p>The benefit of this feature is it will help to provide a unified visual monitoring and management center for the failure of HCI of the overall software and hardware, reduces the difficulty of operation and maintenance and workload.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>8. TOR E.1 Item B.7, p3</p> <p>May we proposed to add this feature:</p> <p>“k) Provide the function of virtual machine recycle bin, manage the deleted virtual machine in a unified way, prevent the data loss caused by the false deletion of virtual machine, support recycle bin file saving cycle configuration, the overdue file will be automatically deleted.”</p> <p>The benefit of this feature is it will help to provide a unified visual monitoring and management center for the failure of HCI of the overall software and hardware, which reduces the operation and maintenance difficulty and workload.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>

<p>9. TOR E.1 Item B.7, p3</p> <p>May we proposed to add this feature:</p> <p>“l) Provide application-level HA function, automatically detect and repair application faults running in virtual machine without installing agent inside virtual machine, including but not limited to Apache tomcat, JDK, Apache HTTP server, mysql, SQL server, SharePoint, and other applications, and support user-defined script to monitor application status.”</p> <p>The benefit of this feature is that it will provide application-level HA function, which reduces the operation and maintenance difficulty and workload.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>10.TOR E.1 Item B.7, p3</p> <p>May we proposed to add this feature:</p> <p>“m) Support multiple storage service through single cluster, including distributed blocks, object, NAS storage service in the same platform, compatible with S3 interface.”</p> <p>The benefit of this feature is it will only require PAGASA a single HCI cluster to deploy all kinds of management software. Different management software may require supporting different storage service like distributed blocks, object, NAS.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>11. Annex A page 1 of 1</p> <p>The “2 sets 10 tonner Precision Air Conditioning Unit” cannot meet the requirement stated in the Terms of Reference, Page 3 of 8, E.1 Item B.2 Cooling System (PACU), point j) “Cooling capacity: 25kw/unit (3+1 redundancy).”</p> <p>May we request to revise the requirement and rephrase as “4 sets: 25kw Precision Air-conditioning Unit”.</p>	<p>Granted. E.1 Item B.2., Page 3 of 8, TOR is hereby amended as 4 sets, 25kw Precision Air-conditioning Unit” (3+1 redundancy)</p>
<p>12. Annex A page 1 of 1</p> <p>May we request to revise the requirement to:</p> <p>“1 lot: Prefabricated all-in-one data center 40ft- IT- Standare Version-N+X</p>	<p>There was a typographical error in Annex A specification indicating 75kVA whereas in TOR</p>

<p>54kw load 8pcs*42U racks-A&B-based rPDU—20~45Deg-class C SPD-CE system-with Gas Cylinder-HFC-227ea gas-60kVA UPS-15kw (2(4+1) redundancy), 380V 60Hz, 12192*2438*2896 Container (40feet), Including Insulation decoration, wall decoration, cabinet installation base”.</p> <p>This will benefit PAGASA with more flexible and granularly capacity expansion in the future, will adopt with rackmount modular UPS with 2U 15kVA power module, 5 nodes is for at least 60kVA full load capacity with high-performance battery back-up in 2(N+1) redundancy as referred to in the Terms of Reference, page 3 of 8, E.1 Item B.1 Power System, point e), “Rackmount 2U 15kVA 2 node” and point d) “at least 60kVA full load capacity or the KVA rated capacity will depend on the total power requirement of the system offered.”</p>	<p>it should be 60kVA. The TOR specification will prevail.</p> <p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>
<p>13. Annex A page 1 of 1</p> <p>May we request to revise the requirement to:</p> <p>“2 sets: Lithium-ion battery, 64v 50Ah *8/25.6kWh or better and more granular combination for 25.6kWh capacity.”</p> <p>This will benefit PAGASA with more flexible and granularly capacity expansion in the future, which is also a better battery combination for 25.6 kWh capacity.</p>	<p>The specifications in the TOR represent the minimum technical specifications of the subject item/s.</p> <p>Thus, prospective bidder/s may be allowed to present alternative offers that are compliant to and responsive with the specific requirements of the Project.</p>

This shall form an integral part of the Bid Documents.

For guidance and information of all participating bidders.


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 Chairperson, PAGASA-BAC