



25 October 2023

**SUPPLEMENTAL BID BULLETIN**  
**ADDENDUM NO. 2023-015-01**

**Subject: Supply, Delivery, Installation, Testing, Training and Commissioning of Two (2) 10 TR Precision Air Conditioning Unit (PACU) in WFFC ICT Server Rooms 2<sup>nd</sup> and 3<sup>rd</sup> Floors**  
*(Reference: PR No. 2023-02-0081 / IB No. 2023-015)*

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 written queries and clarificatory questions during the pre-bid conference by prospective bidders, to wit:

Queries from: **American Technologies, Inc.**

Query	Answers
1. For HMI, your requirement is 9 in, our maximum that We can offer is 7in. We would like to request for your approval please.	
2. For Total System Power of Indoor Unit, your requirement is 10 to 11kW, Our offer is 28kW. We would like to request for your approval please	The technical specifications indicated in the TOR represent the minimum requirements of the Project. Thus, prospective bidder/s may present alternative solutions in their respective proposal/s; provided that, the same is compliant and responsive with the project's specific requirements and is advantageous on the part of the government.
3. Regarding EER, your requirement is 2.95, our offer is 2.59. We would like to request for your approval please	
4. For Full Load Current, your requirement is 3.2A, our offer is 3.4A. We would like to request for your approval please	
5. Regarding Weight of Condenser, your requirement is 130kgs, our offer is 215kgs. We would like to request for your approval please.	
6. Regarding Environmental Monitoring System, you required that it must be the same brand as the offer PACU for ease management, but our offer is not same brand as our PACU. We would like to request for your approval please.	The technical specifications for the same brand offer are in place to ensure ease of management and to maintain a high level of quality of performance of the equipment, better compatibility and easier integration. It will also help us to reduce maintenance issues and increases the longevity of the systems in use.
7. Is there any Bonds for this project?	Please refer to the 2016 Revised IRR of RA9184 Section 39 for the Performance Security Guidelines
8. What is the Terms of Payment for this project?	Payment will be done upon completion of the project

Queries from: **EGM Systems Global Technologies, Inc.**

Query	Answers
1. Under the equipment features in the terms of reference, " <b>Must have microchannel condenser</b> ".  We'd like to double check if the specification really pertains that the condenser must have microchannel coils or that the evaporator coil	Yes, it pertains to the microchannel evaporate coil.

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must be microchannel? Usually microchannel coils are located in the indoor unit since placing these coils in the outdoor unit makes it more susceptible to damage.	
2. Under Letter C. Qualifications of Bidder <i>The works involved Electro-Mechanical.</i> Are we require to provide registered Electrical Engineer?	Yes
3. Under Letter C. Qualifications of Bidder <i>The works involved integration of existing PACU to EMS.</i>  Are we require to provide Certified Data Center Professional?	Yes, this is necessary to ensure the quality of integration.
4. In line with the Manufacturer Certificate, are you required that the bidder should be a Diamond Partner/ Elite Partner or highest level of partnership on the product offer?	Not necessarily but we will require manufacturer's authorization.
5. Under Bill of Quantities, Precision Air Conditioning Units (PACU) and Environmental Monitoring are not really included?	2 units PACU 35KW  Upflow   Air cooled   EC plug fan   380V/3P/60Hz Inclusion: - SNMP Card for Web Monitoring - CONDENSER Inverter outdoor condensers air cooled system, operate in 380~415V/3ph/50&60Hz, Services - Three (3) Years Warranty with Quarterly Visit - 24/7 email and phone Support - 3-4 hours onsite response time  1 lot 11units Temperature and Humidity Sensor f - 2units Water Sensor 10m - 2 units Alarm Beacon with Sound - Fire Suppression System integration - integration of Exiting PACU to Environmental Monitoring Hardware Service: - Three (3) Years Warranty with Quarterly Visit - 24/7 email and phone Support - 3-4 hours onsite response time
6. Under Letter C. Qualifications of Bidder, Mechanical Engineer, Safety Officer, PACU/Air Specialist are required to provide: i. Curriculum Vitae ii. Certificate of Employment iii. PRC?	Yes

Queries from: **Superserve Corporation (Part 1)**

Query	Answers
<b>A. TOR C</b>  <b>C.3</b> Submit a proposed layout reviewed and duly signed by the end-user representative <b>C.5.i</b> Submit as part of their respective proposals original copy of the design proposal.  Is the bidder required to submit the proposed layout and other drawings during the bid submission?	After the bidding or for the winning bidder requirement only

<p><b>B. TOR C.5.ii</b></p> <p>Submit unamended brochures and literatures of the equipment offered, including other publications to support their compliance with the specific requirements of the Project, such as but not limited to area cooling computation, methodology, of installation, system management scheme during the bid submission.</p> <p>Is the bidder required to provide the area of cooling computation, methodology of installation, system management scheme during the bid submission?</p>	<p>Please refer to Letter C of the TOR</p>
<p><b>C.</b> If under item A and B of the above question are answered in the positive, may we request that the bid submission be extended for one (1) week considering that the design calculation and drawings takes time to make.</p>	<p>The Delivery Period shall be maintained to 180 calendar days due to the urgency of the needs of the Project.</p>
<p><b>D. TOR C.6 SLCC</b></p> <p>Submit at least one (1) Single Largest Completed Contract (SLCC) that is similar in nature and complexity to the contract to be bid. For this purpose, a similar contract that will be accepted shall involve the supply, delivery, installation, testing and commissioning of a PACU and Environmental Monitoring System.</p> <p>Will PAGASA accept an SLCC with a scope of only Supply, Delivery, Installation, Testing and Commissioning of PACU only?</p>	<p>Any related project but not limited to Precision Air Conditioning Units only.</p>
<p><b>E. TOR D</b></p> <p>The winning bidder is required to complete the project within one hundred eighty (180) days from receipt of Notice to Proceed.</p> <p>Currently the manufacturer of the PACU has informed us that it would take 12-16 weeks to manufacture the units alone and may be extended because of the supply chain management disruptions. While the delivery and logistics usually takes 8-12 weeks and the installation, together with the remaining works usually ranges from 4-6 weeks. Will PAGASA allow to extend the delivery lead time to at least ninety (90) days?</p>	<p>The winning bidder shall request in writing provided that such request is submitted before the expiration date of the contract, subject to the approval of the Head of the Procuring Entity.</p>
<p><b>F. TOR E.2 Detailed Specifications</b></p> <p>Will PAGASA allow a tolerance of +/- of 10% in the specifications to encourage more bidders to participate?</p>	<p>The technical specifications indicated in the TOR represent the minimum requirements of the Project. Thus, prospective bidder/s may present alternative solutions in their respective proposal/s; provided that, the same is compliant and responsive with the project's specific requirements and is advantageous on the part of the government.</p>

<p>G. TOR E.2 Detailed Specifications PACU must have HMI at least a 9" in display</p> <p>Will PAGASA allow a 7 inch of HMI display system considering it is usually the standard size of HMI display module in the market?</p>	<p>Yes</p>
<p>H. TOR E.3 Environmental Monitoring System</p> <p>Kindly provide a schematic diagram of the Environmental Monitoring System and provide the list of all equipment that PAGASA intends to integrate with the system and the list of all the parameters that PAGASA intends to monitor and evaluate. Please identify where the temperature and humidity sensors shall be located in the room?</p>	<p>No need for a schematic diagram, please refer to the TOR for the equipment. The location of temperature and humidity may vary upon installation.</p>
<p>I. TOR E.3 Environmental Monitoring System Must be the same brand as the offer PACU for ease of use.</p> <p>Will PAGASA allow a different brand of EMS against the PACU offered?</p>	<p>The technical specifications indicated in the TOR represent the minimum requirements of the Project. Thus, prospective bidder/s may present alternative solutions in their respective proposal/s; provided that, the same is compliant and responsive with the project's specific requirements and is advantageous on the part of the government</p>
<p>J. Under the Bill of Quantities</p> <p>The materials indicated does not show the PACU, Environmental Monitoring System, humidity and temperature sensors, alarm beacon, wiring of the sensors among others?</p>	<p>2 units PACU 35KW  Upflow   Air cooled   EC plug fan   380V/3P/60Hz Inclusion: - SNMP Card for Web Monitoring - CONDENSER Inverter outdoor condensers air cooled system, operate in 380~415V/3ph/50&amp;60Hz, Services - Three (3) Years Warranty with Quarterly Visit - 24/7 email and phone Support - 3-4 hours onsite response time</p> <p>1 lot 11units Temperature and Humidity Sensor f - 2units Water Sensor 10m - 2 units Alarm Beacon with Sound - Fire Suppression System integration - integration of Exiting PACU to Environmental Monitoring Hardware Service: - Three (3) Years Warranty with Quarterly Visit - 24/7 email and phone Support - 3-4 hours onsite response time</p>

Queries from: **Superserve Corporation (Part 2)**

Query	Answers
<p><b>TOR E.2 Detailed Specifications</b></p> <p>The specifications states that it shall have at least 35kw cooling capacity, correspondingly the EER shall be at 2.95, full load current, must not exceed total power shall be only from 10-</p>	<p>The technical specifications indicated in the TOR represent the minimum requirements of the Project. Thus, prospective bidder/s may present alternative solutions in their respective proposal/s;</p>

<p>11 kw and an airflow of at least 13,800 CMH. Our principal observed that the in order to reach the required minimum airflow of at least 13800 CMH it will need to have about 50kw cooling capacity and together with the increase of the cooling capacity, the other parameter shall also increase, i.e. EER, total power system, full load current.</p> <p>May we know what is the determining specification that PAGASA will consider for their Precision Air Conditioning Unit, is it the cooling capacity or the airflow? In Addition, will PAGASA allow an increase in the other technical specifications should it choose the 13,800 CMH airflow capacity?</p>	<p>provided that, the same is compliant and responsive with the project's specific requirements and is advantageous on the part of the government</p>
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Queries from: **Infobahn Communications Inc.**

Query	Answers
<p><b>PACU</b></p> <p>1. Must have infrared Humidifier with at least 4KW total Power</p> <p>Is it possible to offer alternative based on vendor's specifications? provided it includes a humidifier, it classifies as a precision cooling system.</p>	<p>The technical specifications indicated in the TOR represent the minimum requirements of the Project. Thus, prospective bidder/s may present alternative solutions in their respective proposal/s; provided that, the same is compliant and responsive with the project's specific requirements and is advantageous on the part of the government</p>
<p><b>PACU</b></p> <p>2. Must have HMI at least 9" display</p> <p>Can we offer alternative based on vendors specification as long as the display is informative with alarms, status, parameters?</p>	
<p><b>Indoor Unit</b></p> <p>3. Total Airflow: at least 13800 CMH</p> <p>Can we offer alternative based on vendors specifications as long as it can provide sufficient cooling considering the setup on site?</p>	
<p><b>Outdoor Unit</b></p> <p>4. Must support monitoring of Data Center equipment such as UPS and precision cooling units and be capable to manage environmental conditions i.e. temperature, humidity, leak, smoke, and vibrations in a single module or equipment.</p> <p>Generally it refers to VERTIV SPECS:</p>	
<p><b>Outdoor Unit</b></p> <p>5. Must be capable of monitoring the health and status of equipment.</p>	

Can we offer any EMS as long as it can provide the essential requirements like monitoring the temperature, humidity, leak, etc.	
<b>Outdoor Unit</b>	
6. Must have at least two power inputs 100-240 VAC.	
Can this be 1 single power input only?	

Queries from: **Neo-Tech Distribution, Inc.**

Query	Answers
1. What is the Existing fire suppression system?	Chemetron Fire Systems
2. In the SLCC, would it be possible for us to use our project "Design, Supply, Rehabilitation, and Upgrade of Data Center Facility" Project wherein PACU had been included?	Yes

Queries from: **Coffel Aire Industries Incorporated**

Query	Answers
1. Please specify if PACU are Inverter Type or Standard Type.	The PACU is inverter type
2. Kindly advise the units power supply. Are we allowed to provide transformer if our supplied PACU are of different from power source?	Yes, you are allowed to provide transformer
3. What's the refrigerant to user?	Refrigerant must be R410A or equivalent
4. Can we use an Electrode Boiler Humidifier In lieu of Infrared Humidifier? PACU with Infrared Humidifier is supplied by one PACU supplier only?	The technical specifications indicated in the TOR represent the minimum requirements of the Project. Thus, prospective bidder/s may present alternative solutions in their respective proposal/s; provided that, the same is compliant and responsive with the project's specific requirements and is advantageous on the part of the government.
5. Suggest to delete in the Detailed Specifications of the TOR the bullet " <i>Must have HMI at least 9" display</i> " since every manufacturer has its own standard design on its display panel.	Display panel size must complement with the ACU offer.
6. Under To encourage more bidders' participation, we would like to request for your kind consideration either of the following for the Single Largest Completed Contract (SLCC) be accepted: Specialist are required to provide: a. Curriculum number of years from three (3) years to eight (8) years since with three years of pandemic, as supplier/contractor, only few had the opportunity to have projects on PACU with substantial amount; or b. If in case, 2 aggregate contracts with a combination of:	Please refer to Letter C item number 6 of the TOR.  Submission of "aggregate contracts" may be allowed for purposes of compliance with the SLCC requirements; provided, that, "prospective bidders" should have completed at least two (2) similar contracts and the aggregate contract amounts should be equivalent to at least 50% of the ABC of the instant Project; and, the largest of these similar contracts must be equivalent to at least 25% of the ABC of the instant Project." (Section 23.4.1.3 (a & b).

<p>i. Supply and Installation of PACU, and</p> <p>ii. Preventive maintenance of PACU (we maintained the PACU we supplied and installed to our client); or</p> <p>c. Any project involving Supply of Labor, Tools, Materials, Equipment, Consumables, Technical Supervision and Other Services necessary for the Replacement of VRF Air-conditioning Units.</p>	
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This shall form an integral part of the Bid Documents.

For guidance and information of all participating bidders.

**Sgd.**  
**BONIFACIO G. PAJUELAS, Ph.D.**  
*Chairperson, PAGASA-BAC*

