



**BIDS AND AWARDS COMMITTEE FOR DICTBAC**

**Supplemental Bid Bulletin No. 1**

**SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF TWO (2) FLOOR MOUNTED 25 TR PRECISION AIR CONDITIONING UNITS (PACU) FOR THE SERVER ROOM AND ENVIRONMENTAL MONITORING SENSORS FOR THE SERVER ROOM, BATTERY ROOM, AND UPS ROOM**

**Bid Reference No. DICTBAC-2019-022**

<b><u>ACTIVITY</u></b>	<b><u>PREVIOUS SCHEDULE</u></b>	<b><u>REVISED SCHEDULE</u></b>
Opening of Bids	30 October 2019 1:30PM	30 October 2019 3:00PM

**CLARIFICATION ON THE APPROVED BUDGET FOR THE CONTRACT (ABC)**

<b><u>STATED ON THE INVITATION TO BID (ITB) PHILGEPS POSTING</u></b>	<b><u>CORRECT AND FINAL ABC</u></b>
PhP39,805,880.00	PhP10,944,566.67

**QUERIES FROM THE PROSPECTIVE BIDDERS**

<b><u>Item No.</u></b>	<b><u>Reference</u></b>	<b><u>Query</u></b>	<b><u>End Users Response</u></b>
<u>1</u>	Item No.2 Proposal Submission and Evaluation on Other Requirements 2.1 The Bidder must have a valid Procurement Contractors Accreditation Board (PCAB) License with at least under Specialty Category "B"	Is it possible not to require a PCAB license since the project already requires a registered Mechanical Engineer as to oversee the Installation. In addition, the Mechanical works required for the project is basic Mechanical works only that represents minimal portion of the bid and that majority of the ABC of the project covers the supply, delivery and installation of 2 units floor Mounted 25TR PACU and Environmental	We will no longer be requiring a PCAB license.



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		<p>monitoring Systems as accessories.</p> <p>PCAB License primarily applied for Mechanical Contractors or Sub-contractors that engage in the business of contracting covering intensive and critical Mechanical design/system, from our understanding.</p>	
<u>2</u>		<p>If Joint Venture, we would like to confirm if both partners are required to provide:</p> <ul style="list-style-type: none"> <li>a. Ongoing Contract</li> <li>b. NFCC</li> <li>c. Bid Securing</li> <li>d. Secretary Certificate</li> <li>e. Omnibus Certificate</li> </ul>	<ul style="list-style-type: none"> <li>a. Ongoing Contract- Compliance of one, compliance of all.</li> <li>b. NFCC- Compliance of one, compliance of all.</li> <li>c. Bid Securing Declaration- Compliance of one, compliance of all.</li> <li>d. Secretary Certificate- can be submitted by one partner as long as it is shown in the secretary certificate that the other party authorizes the other JV partner.</li> <li>e. Omnibus Certificate- Compliance of one partner is compliance of the JV as long as the representative indicated in the form is duly appointed in the Secretary Certificate.</li> </ul>

<u>ORIGINAL PROVISION</u>	<u>AMENDED PROVISION</u>
<b>SECTION III. BID DATA SHEET</b>	
(b) Technical Documents	<b><u><i>(b) Technical Documents</i></u></b>



<b><u>ORIGINAL PROVISION</u></b>	<b><u>AMENDED PROVISION</u></b>
<p>xxx</p> <p>xii. Valid Business and Professional Certifications</p> <p style="padding-left: 20px;">a. Philippine Contractors Accreditation Board (PCAB) License with at least under Specialty Category "B"</p> <p style="padding-left: 20px;">b. Certified Data Center Professional</p> <p style="padding-left: 20px;">c. PRC License for Registered Mechanical Engineer</p> <p style="padding-left: 20px;">d. Safety Officer II Certification</p>	<p><b><u>xxx</u></b></p> <p><b><u>xii. Valid Business and Professional Certifications</u></b></p> <p style="padding-left: 20px;"><b><u>a. Certified Data Center Professional</u></b></p> <p style="padding-left: 20px;"><b><u>b. PRC License for Registered Mechanical Engineer</u></b></p> <p style="padding-left: 20px;"><b><u>c. Safety Officer II Certification</u></b></p>
<b>SECTION VII. TECHNICAL SPECIFICATIONS</b>	
<p>Other Requirements</p> <p>2.1. The Bidder must have a valid Procurement Contractors Accreditation Board (PCAB) License with at least under Specialty Category "B"</p>	<b><u>Provision is Deleted</u></b>
<b>SECTION X. CHECKLIST OF REQUIREMENTS</b>	
<p>ELIGIBILITY DOCUMENTS</p> <p>CLASS "A" DOCUMENTS</p> <p>12.1 (a.1.) ELIGIBILITY DOCUMENTS</p> <p style="padding-left: 20px;">i. PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the</p>	<p><b><u>ELIGIBILITY DOCUMENTS</u></b></p> <p><b><u>CLASS "A" DOCUMENTS</u></b></p> <p><b><u>12.1(a.1.) ELIGIBILITY DOCUMENTS</u></b></p> <p style="padding-left: 20px;"><b><u>i. Registration Certificate from the Securities and Exchange Commission (SEC) for corporations, Department of Trade and Industry (DTI) for sole proprietorship, or from Cooperative Development Authority CDA) for cooperatives.</u></b></p> <p style="padding-left: 20px;"><b><u>ii. Valid and Current Business/Mayor's Permit issued by the city or municipality where the principal place of business of the prospective</u></b></p>



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<p>IRR.</p> <p>ii. Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (Annex I)</p> <p>iii. Statement of Completed Single Largest Contract within the last five (5) years from the date of submission and receipt of bids equivalent to at least fifty percent (50%) of the ABC (Annex I-A).</p> <p>1. Duly signed Net Financial Contracting Capacity Computation (NFCC)* per Annex II, in accordance with ITB Clause 5.5 or a committed Line of Credit equivalent to at least ten percent (10%) of the ABC from a universal or commercial bank</p> <p>*NFCC = [(Current Assets minus Current Liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.</p> <p>Notes:</p> <p>a) The values of the bidder's current assets and current liabilities shall be based on the data submitted to BIR through its Electronic Filing and Payment System.</p> <p>b) Value of all outstanding or uncompleted contracts refers those listed in Annex I.</p> <p>c) The detailed computation using the required formula must be shown as provided above.</p> <p>d) The NFCC computation must at least be</p>	<p><b><u>bidder is located OR the equivalent document for Exclusive Economic Zones or Areas.</u></b></p> <p><b><u>iii. Valid and Current Tax Clearance issued by Philippines' Bureau of Internal Revenue (BIR) Accounts Receivable Monitoring Division per Executive Order 398, Series of 2005.</u></b></p> <p><b><u>iv. Copy of each of the following Audited Financial Statements for 2018 and 2017 (in comparative format or separate reports):</u></b></p> <p><b><u>a. Independent Auditor's Report;</u></b></p> <p><b><u>b. Balance Sheet (Statement of Financial Position); and</u></b></p> <p><b><u>c. Income Statement (Statement of Comprehensive Income)</u></b></p> <p><b><u>v. PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.</u></b></p> <p><b><u>vi. Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (Annex I)</u></b></p> <p><b><u>vii. Statement of Single Largest Completed Contract (SLCC) within</u></b></p>



<b><u>ORIGINAL PROVISION</u></b>	<b><u>AMENDED PROVISION</u></b>
equal to the total ABC of the project.	<p><b><u>the last five (5) years from the date of submission and receipt of bids equivalent to at least fifty percent (50%) of the ABC (Annex I-A).</u></b></p> <p><b><u>viii. Duly signed Net Financial Contracting Capacity Computation (NFCC)* per Annex II, in accordance with ITB Clause 5.5 or a committed Line of Credit equivalent to at least ten percent (10%) of the ABC from a universal or commercial bank.</u></b></p> <p><b><u>*NFCC = [(Current Assets minus Current Liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.</u></b></p> <p><b><u>Notes:</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>The values of the bidder's current assets and current liabilities shall be based on the data submitted to BIR through its Electronic Filing and Payment System.</u></b></li> <li>• <b><u>Value of all outstanding or uncompleted contracts refers those listed in Annex-I.</u></b></li> <li>• <b><u>The detailed computation using the required formula must be shown as provided above.</u></b></li> <li>• <b><u>The NFCC computation must at least be equal to the total ABC of the project.</u></b></li> </ul>
No Original Provision	<p><b><u>12.1 (b)(xi)</u></b></p> <p><b><u>List of authorized Service</u></b></p>



<b><u>ORIGINAL PROVISION</u></b>	<b><u>AMENDED PROVISION</u></b>
	<p><b><u>Centers/Support Centers in the Philippines (with available spare parts, indicating address, telephone &amp; fax number/s, e-mail address &amp; contact person). In the event of closure of business, termination of franchise / service center, the supplier shall notify the DICT accordingly of the new service centers with telephone numbers and address who can provide the needed parts, supplies and service</u></b></p>
<p>No original Provision</p>	<p><b><u>12.1 (b)(xia)</u></b></p> <p><b><u>Valid Business and Professional Certifications</u></b></p> <ul style="list-style-type: none"> <li><b><u>a. Certified Data Center Professional</u></b></li> <li><b><u>b. PRC License for Registered Mechanical Engineer</u></b></li> <li><b><u>c. Safety Officer II Certification</u></b></li> </ul>

All terms, conditions and instructions to bidders specified in the Bidding Documents inconsistent with this Bid Bulletin are hereby superseded and modified accordingly.

For information and guidance of all concerned.

Issued this 23<sup>rd</sup> day of October 2019.

*(Original Signed)*

**IVIN RONALD D.M ALZONA**

Chairperson, DICTBAC



**Supply, Delivery, Installation, Testing and Commissioning of two (2) Floor Mounted 25 TR Precision Air Conditioning Units (PACU) for the Server Room and Environmental Monitoring Sensors for the Server Room, Battery Room, And UPS Room**

**DICTBAC-2019-022**

**REVISED TECHNICAL SPECIFICATIONS AS OF 23  
OCTOBER 2019**

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).

<b>ITEM</b>	<b>MINIMUM SPECIFICATIONS</b>	<b>STATEMENT OF COMPLIANCE</b>
1	1. 25 TR PRECISION AIR CONDITIONING UNIT SPECIFICATIONS	
	1.1. Overview	
	1.1.1. Two (2) units will be procured and installed in NGDC 1 Server Room. Units will be designated as PACU 2 and PACU 5.	
	1.1.2. Installation Area will be in the Server Room with floor area 17.8 x 19.88 m. The Server Room has a raised floor with plenum depth of 30 cm (See Annex A for details).	
	1.1.3. All units must have a down flow air discharge (directed to the raised floor plenum).	
	1.1.4. CE or UL Certification	
	1.1.5. Product supplied must be from manufacturer certified with latest ISO 9001/EN 29001	
	1.1.6. Connections inside the indoor unit can be individually shut off (contactors and breakers for electrical and safety valves for mechanical).	
	1.2. Design Requirements	
	1.2.1. Indoor design requirement: 25 C +/- 1 deg C & 45% +/-5% RH (unit entering return air condition)	



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	1.2.2. Outdoor design condition: 37.8 C	
	1.2.3. Unit EER (minimum): 1.8 or higher	

	1.2.4. Capacity Steps: 25-50-75-100% (dual compressor with unloader)	
	1.2.5. Footprint must not exceed (W,D,H) of 3360 mm, 900mm, 1940 mm	
	1.3. Electrical Works and Specification	
	1.3.1. The two 25 TR PACU will tap to the existing main distribution panel (MDP). Circuit breakers are already installed with trip rating of 200 AT.	
	1.3.2. Supply and installation of new feeder line for the existing indoor 200 AT breaker (PACU 2).	
	1.3.3. Supply and installation of new 200 AT breaker besides indoor unit of new 25 TR PACU (PACU 5). Additional 200X100 mm cable tray including feeder line for branch-out of power supply to PACU 5. Includes conduits for electrical going to and from 200 AT breaker (See Annex A for details).	
	1.3.4. Electrical installation includes grounding wire for each 25 TR unit. Grounding bus bar is in the Main Distribution Panel (MDP).	
	1.3.5. IMC for wiring of outdoor units. Liquid tight flexible metallic conduit for control wire of condensing unit.	
	1.3.6. Indoor unit: 230 V/3 Ph/60 Hz	
	1.3.7. Supply and installation of a relay shutdown cable that will be connected to the Fire Suppression Control Panel which will shut down the unit when a fire alarm occurs.	
	1.4. Panel works and mounting	
	1.4.1. Indoor units will be mounted on raised floor with depth of 30 cm.	
	1.4.2. Panels and doors can be removed on all sides of unit.	
	1.4.3. Front panels must be hinged (door-like) or removable and has locking fasteners to prevent unauthorized access.	
	1.4.4. Insulation for fire proofing must be classified as B1 in accordance to DIN 4102 or U.L. rated "FHC 25/50" for flame and smoke development per U.L. standard 723.	
	1.4.5. Must be sound proofed from the inside	
	1.4.6. Provision of steel duct with similar dimension (Length and Width of the PACU) for air flow return coming from the ceiling plenum. Design of steel duct will depend on filter location of PACU.	
	1.4.7. Provision of steel duct to channel downblast air forward in the underfloor plenum.	





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	1.4.8. Provision of PACU steel mounting to elevate the unit on the same level of the raised floor.	
	1.5. Blower	
	1.5.1. Has at least two blowers	

	1.5.2. Airflow is directed downwards (downflow)	
	1.5.3. Must be directly driven	
	1.5.4. Motors are electronically commutated (EC) i.e. microprocessor controls power delivery and speed.	
	1.5.5. Can send alarm signals	
	1.5.6. Total capacity must have an air discharge rate of 21,000 m <sup>3</sup> /h or higher	
	1.6. Evaporator and Filters	
	1.6.1. Fins are pressed-on aluminum with hydrophilic coating.	
	1.6.2. Has total sensible cooling capacity of at least 25 TR	
	1.6.3. Coil is made of copper core tubes.	
	1.6.4. Must be able to drain condensate even with high air flow velocities	
	1.6.5. Condensate tray and cover plate is made of aluminum or stainless steel.	
	1.6.6. Filters are removable and have a MERV 8,11, or 13 rating.	
	1.6.7. Has a filter differential pressure switch which can provide a 'Filter clogged' warning or something similar	
	1.7. Compressor	
	1.7.1. Power supply: 230 V/3 Ph/60 Hz	
	1.7.2. Has dual compressor that are independent to one another (i.e. two refrigeration circuits)	
	1.7.3. Must be hermetically or semi-hermetically sealed	
	1.7.4. Scroll or Reciprocating Type Compression	
	1.7.5. Must have internal oil management	
	1.7.6. Must have internal motor protection	
	1.7.7. Must have electrical protection	
	1.7.8. Must have non-return valves at connections	
	1.7.9. Must be mounted with dampers to isolate vibration	
	1.8. Refrigeration Circuit	
	1.8.1. R407 C or R410 A	
	1.8.2. Low pressure switch has an automatic reset.	
	1.8.3. High pressure switch has a manual or auto reset.	
	1.8.4. Must have shut off valves in low and high pressure line	
	1.8.5. Has an electronic/thermal expansion valve with pressure or temperature sensor in the suction line	
	1.8.6. Must have a Sight glass	



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	1.8.7. Has a charging/access port (Schrader valves) per refrigeration circuit	
	1.9. Electrical heating	
	1.9.1. Low watt density stainless steel fin tubular construction	

	1.9.2. Reheat element can be removed from the front of the cabinet.	
	1.9.3. Must have an overheat protection	
	1.10. Humidifier	
	1.10.1. Water supply is pre-piped for easy connection to water line.	
	1.10.2. Has a level sensor to prevent over-flow of water	
	1.10.3. Has a control board with microprocessor	
	1.10.4. Has a separate magnetic contactor in the electrical box of the unit	
	1.10.5. Utilizes proportional control	
	1.10.6. Must have a capacity of at least 8 kg/hr capacity	
	1.10.7. Steam canister or infrared type	
	1.10.8. Features manual draining by press button on the controller board	
	1.11. Outdoor condenser unit	
	1.11.1. Power supply: 230 V/60 Hz	
	1.11.2. Must be made of copper with pressed-on aluminum fins or microchannel	
	1.11.3. Air-cooled/Direct Expansion	
	1.11.4. Evaporator must be matched with a sufficient capacity condenser.	
	1.11.5. Has corrosion resistant self-supporting housing made of aluminum, protection class IP 44	
	1.11.6. Fans must be covered with grid cages and are corrosion resistant, water proof, and maintenance-free.	
	1.11.7. Condenser units must be located above the trench and provided with a steel platform levelled on the ground (similar to existing outdoor units) including catwalk for maintenance provision (See Annex B for details).	
	1.11.8. Each fan must be directly driven.	
	1.11.9. Main switch to power supply is water jet-proof in accordance to IP 65.	
	1.11.10. Fans are controlled by a speed controller with pressure sensor in the hot gas line.	
	1.11.11. Speed Controller:	
	1.11.11.1. Has adjustment based on pressure for maximum speed	
	1.11.11.2. Has a switch for behavior below proportional range (cut off/minimum speed)	



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	1.11.11.3. Must be IP 54 rated	
	1.12. Sensors	
	1.12.1. Each refrigeration circuit has pressure sensors for high and low side for easy maintenance.	
	1.12.2. Temperature and humidity sensors in air return side	
	1.12.3. Temperature and humidity sensors in air supply side	
	1.12.4. Water detection module with a sensor electrode. The sensor electrode must be installed on-site below the raised floor.	
	1.13. I/O Controller	
	1.13.1. Capable of automatic or manual start after power loss. Unit start time delay is configurable for individual components.	
	1.13.2. Has energy saving fan speed control depending setpoint	
	1.13.3. Can display service notifications according to pre-set time intervals	
	1.13.4. Capable day and night operation settings	
	1.13.5. Capable of recording at least 300 alarm logs with time and date	
	1.13.6. Has common alarm alerts	
	1.13.7. Must have RS232 Port on microprocessor board for servicing and firmware update.	
	1.13.8. Capable of sequencing of all connected IO Controllers.	
	1.13.9. Can set turn over conditions: Unit failure and selectable temperature for Standby-unit	
	1.13.10. Has selectable sequencing time	
	1.13.11. Modbus, SNMP, or BACnet protocol must be supported	
	1.13.12. Supervision of following signals: air flow, compressor, heater, fan speed, condensation pressure, filter, humidifier, water detector, fire alarms, 4 auxiliary alarms, broken sensors.	
	1.14. Interfaces	
	1.14.1. RS232 Service Port (Sub-D 9) for configuration	
	1.14.2. RS232 or RS485 for connection to BMS	
	1.14.3. Modbus RTU	
	1.14.4. SNMP v1, v2, and v3	
	1.15. Web Interface	
	1.15.1. Display temperature can be changed to °C or °F.	
	1.15.2. Supports English language	
	1.15.3. Able to access the web interface via 3 authorization levels:	
	1.15.3.1. Read only	
	1.15.3.2. Read and write unit data	
	1.15.3.3. Read and write unit data and administrate SNMP, can also modify passwords of the 3 levels	



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	1.15.4. Capable of configuration of unit via web page; no need for physical access of unit.	
	1.15.5. Able to reboot web interface unit without cutting off power supply after changing configurations	
	1.15.6. Data logging:	

	1.15.6.1. Can display tabular format of logged data on a web page	
	1.15.6.2. Users can download logs by web page.	
	1.15.7. Event log:	
	1.15.7.1. Can display tabular format of logged data on a web page	
	1.15.7.2. Users can download logs by web page.	
	1.15.8. Alarms	
	1.15.8.1. Alarms are indicated by flashing of alarm icon and/or unit summary interface or anything similar.	
	1.15.8.2. Can display a tabular format of alarm list by web page	
	1.15.8.3. Users can download alarm list by web page.	
	1.15.9. SNMP Monitoring:	
	1.15.9.1. Can access all data points (OID)	
	1.15.9.2. Community is freely adjustable	
	1.15.9.3. Up to 6 SNMP Trap receivers as IP Address or name (DNS Server required). Port and community of each receiver are adjustable.	
	1.15.9.4. All alarms of connected units are signaled with a Trap message.	
	1.15.9.5. SNMP interface can be switched off by admin level access.	
	1.16. Email Notifications	
	1.16.1. Alarms:	
	1.16.1.1. Alarm email notifications can be sent to multiple recipients and will be sent instantaneously when an alarm occurs.	
	1.16.1.2. Subject of email notification must be freely definable.	
	1.16.2. Event logs:	
	1.16.2.1. Receiver of email must be freely definable.	
	1.16.3. Data logs:	
	1.16.3.1. Receiver of email must be freely definable.	
	1.16.4. Event Display (potential free input/configuration):	
	1.16.4.1. Subject of email notification must be freely definable.	
	1.16.4.2. Receiver of email must be freely definable.	
	1.16.5. SMTP port is adjustable.	
	1.16.6. SMTP server address can be set as IP address or name (DNS Server required).	
	1.16.7. Supports any of the following authentication methods: DIGEST MD5, CRAM MD5, LOG IN, PLAIN, or Automatic.	



2	2. Environmental Monitoring Sensors	
	2.1. Overview	
	2.1.1. There is an existing EMS Appliance gateway device with a model number Poseidon2 4002.	
	2.1.2. Sensors will be procured and distributed in NGDC 1.	
	2.2. Water Leak Sensors	
	2.2.1. The additional PACUs and existing PACUs are not surrounded with water leak detection sensor cables.	
	2.2.2. Supply, Deliver and Install four (4) Sets of Water Leak Detection Cables to be surrounded on the perimeter of all four (4) PACU's foot print under the raised floor (See Annex C for details).	
	2.2.3. The water leak detection cables should be able to connect to existing EMS appliance gateway device.	
	2.2.4. The water leak detection cables should be configured on a per-zone whereas each PACU is a single zone, this is in order to easily identify which PACU or zone has the leak alarm.	
	2.2.5. The water leak detection cable should be rope-like whereas any contact of liquid from anywhere along the cable can detect water leak.	
	2.2.6. The water leak detection cable can freely bend, twisted, knotted, pressed or even slightly pinched without raising false alarm.	
	2.2.7. The water leak cable sensing cable should only be at the perimeter of the PACU zone, the rest of the cable from the appliance towards before the zone to be monitored should not be a sensing cable.	
	2.3. Temperature and Humidity Sensors	
	2.3.1. Supply, deliver and install 20 sets of combination temperature and humidity sensors (See Annex C for details).	
	2.3.2. Must have minimum -10 to 70 degrees Celsius with a accuracy of +/- 0.8 degrees Celsius	
	2.3.3. Must have minimum 0-100 RH with 5% accuracy	
	2.3.4. Must be connected to existing EMS hardware appliance gateway	
	2.3.5. Must have CE Conformity	
	2.4. Alarm Beacon	
	2.4.1. Supply, deliver and install one (1) Alarm beacon with light and sound to give audible and visual alert to DICT personnel.	
	2.4.2. Alarm beacon should be connected to existing Environmental Monitoring Appliance gateway.	
	2.5. Door Contact Sensor	
	2.5.1. Supply, deliver and install one (1) set of galvanic isolation Door Contact.	



2.5.2. Door contact should be connected to existing Environmental Monitoring Appliance gateway.	
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### OTHER REQUIREMENTS

ITEM	MINIMUM SPECIFICATIONS	STATEMENT OF COMPLIANCE
1	<b>1. GENERAL REQUIREMENTS</b>	
	1.1. This project is initiated for the purpose of increasing the cooling capacity of the DICT National Government Data Center 1 (NGDC 1). Cooling capacity build-up is essential, given the increasing load density of the data center. NGDC 1 aims to have an availability level of 99% and in order to achieve this, critical support facilities must be sized appropriately, and redundancies must be in place to avert unplanned downtime. Doing so will also enable maintenance works to be carried out without disrupting normal operations.	
	1.2. This tender is for the supply, delivery, installation, testing and commissioning of the following:	
	1.2.1. Two (2) units 25 TR down blast Precision Air Conditioning Units (PACU)	
	1.2.2. Environmental Monitoring Sensors and other essential peripherals to complete the system.	
2	<b>2. PROPOSAL SUBMISSION AND EVALUATION</b>	
	2.2. The Bidder must have completed at least one (1) contract similar or related to the project on which the value must be equivalent to at least fifty (50%) percent of the ABC.	
	2.3. For this purpose, similar contracts shall mean "Supply, Delivery, Installation, Testing and Commissioning of Data Center with Precision Air Conditioning Units (PACU)" inclusive of essential piping works and are in operation for at least one (1) year. Copy of Purchase Order, Contract, Letter of Award and/ or Notice To Proceed must be attached in the bid documents to be submitted.	
	2.4. Bidder must submit a detailed project implementation plan that defines the work plan from mobilization to handover, including its integration with the existing system.	
	2.5. Bidder must provide a certificate attesting to the availability of 24x7x365 technical support services along with its Technical Support Organizational Structure. Bidder must include the Service Support and Escalation Levels, with Issue Severity Level well	



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	defined. Technical Support Request process flow must be submitted inclusive of appropriate contacts details.	
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	2.6. Bidder shall provide unlimited number of user trainings within the warranty period. Training shall include course materials, certification (for the training on installation, configuration and operations of the equipment) and meals. Training will be held at the office of DICT (Department of Information and Communications Technology). All cost related to the conduct of the trainings shall be at the expense of the winning bidder.	
	2.7. Bidder must have at least one (1) Certified Data Center Professional (CDCP) and has been employed by the bidder for at least one (1) year. Recent Certificate of Employment and copy of certification should be attached.	
	2.8. Bidder must have at least one (1) registered Mechanical Engineer to oversee the installation of the precision air conditioning unit. The mechanical engineer must be employed to the bidder for at least one (1) year. Copy of valid professional regulatory license shall be attached.	
	2.9. Bidder must assign a Safety Officer all throughout the project implementation. The assigned Safety Officer must have completed the COSH training from any accredited safety training center by Department of Labor and Employment and must be employed by the bidder for at least two (2) years. Recent Certificate of Employment and copy of certification should be attached.	
	2.10. Bidder must provide Certificate of Authorization from Manufacturer/Principal stating that bidder is authorized to distribute or re-sell the products and services offered by the Principal, and can competently provide installation services, technical support and consultation for products offered.	
	2.11. Bidder must be a Solutions Partner/Provider of the brand offered to ensure of its technical expertise on the offered solution. Copy of the certificate to be provided should be signed by principal/manufacturer's senior manager or equivalent.	
	2.12. The offered brand must have Local Representative Office/presence in the Philippines.	
	2.13. The Manufacturer/Principal in the Philippines must have Local Customer Care Center, Customer Support Center or its equivalent.	



	2.14. Bidder must have at least five (5) years of experience in installing and commissioning of similar or equivalent products and services. Proof of experience must be attached in the form of PO, Contract, Letter of Award and/or Notice To Proceed issued by its customer/s.	
3	<b>3. SCOPE OF WORK</b>	
	3.1. Work and Delivery Schedule	
	3.1.1. Work shall be performed from Mondays to Fridays starting from 8:00 a.m. up to 6:00 p.m. and if necessary, beyond 6:00pm and even on Saturdays to Sundays.	
	3.1.2. The project shall be completed within one hundred twenty (120) calendar days from the date of issuance of the Notice To Proceed (NTP) to be issued by DICT. No work shall commence until the NTP is issued and received by the winning bidder.	
	3.2. This project covers the supply, delivery, installation, testing and commissioning of two units 25TR Precision Air Conditioning Units (PACU) for the Server Room and Environmental Monitoring Sensors inclusive of all essential peripherals or devices to complete the system. Service offering must also include all necessary roughing-ins, hauling, pipe installations, leak test, commissioning and other essential services to complete a working system as defined in this Terms of Reference.	
	3.3. The PACU system shall have provisions for all necessary interface connections, controller and ancillary items for standby, rotate, and transfer on alarm function including existing PACU.	
	3.4. Supply, delivery, installation and testing of complete input and output cables including rough-ins, hangers, supports and other peripherals that needed to complete the project without additional cost.	
	3.5. Supply, delivery, installation, testing and commissioning of Environmental Monitoring Sensors that includes the following:	
	3.5.1. Twenty (20) Temperature/Humidity sensors	
	3.5.2. Four (4) water leak sensors	
	3.5.3. LED beacon alarm & sound	
	3.5.4. Door Contact	
	3.6. Decommissioning of the existing 15TR Atlas Air PACU, Model PEC-249FA (PACU 2) – including its outdoor unit and piping. The indoor unit will be dismantled and hauled out of DICT-NGDC 1 Server Room and placed at an area nominated for staging and within the premises of DICT Central Office. Similarly, the outdoor/condensing unit shall be physically removed from the condenser area.	





	3.7. Turn-over to DICT all dismantled wires, circuit breakers and panel covers. Turn-over shall be documented with proper transmittal letter and an attached detailed inventory list on the quantity of the materials and location where such material was dismantled. These turned-over materials shall be stored in the location as directed by DICT.	
	3.8. Upon issuance of Notice to Proceed, winning bidder must submit a report on the airflow dynamics Computational Fluid Dynamics (CFD) in the NGDC 1 Server Room within two weeks. Final position of PACU installation will depend on the airflow dynamics report.	
	3.9. As-built airflow dynamics or CFD will be submitted after PACU installation.	
4	<b>4. TESTING AND COMMISSIONING</b>	
	4.1. DICT representative shall inspect the supply and installation to ensure full compliance with the TOR (Inspection and Acceptance).	
	4.2. Winning Bidder shall be required to submit testing procedures or scripts for review and approval of DICT Authorized Project Representatives.	
	4.3. All Testing to be performed shall be based on the approved test procedures.	
	4.4. Initial User's Training will be conducted after the Inspection and Acceptance.	
	4.5. As-built plans and other project related documentation shall be submitted to DICT upon completion of User Acceptance Test (UAT) or at a period to be approved by DICT but not prior to UAT.	
5	<b>5. WARRANTY AND MAINTENANCE</b>	
	5.1. Supplied Equipment and Devices shall be covered with Three (3) Years warranty against defects in parts, material and workmanship. Consumables shall be included free-of-charge within the effectivity of the warranty period and this includes filters, humidifier steam drum, circuit breaker fuses, and filter drier. This includes Quarterly Preventive Maintenance Services and 24/7 After Sales Technical Support.	
	5.2. Form of warranty shall be as specified in Section 62.1 of the Revised Implementing Rules and Regulations (IRR) of R.A. 9184,	

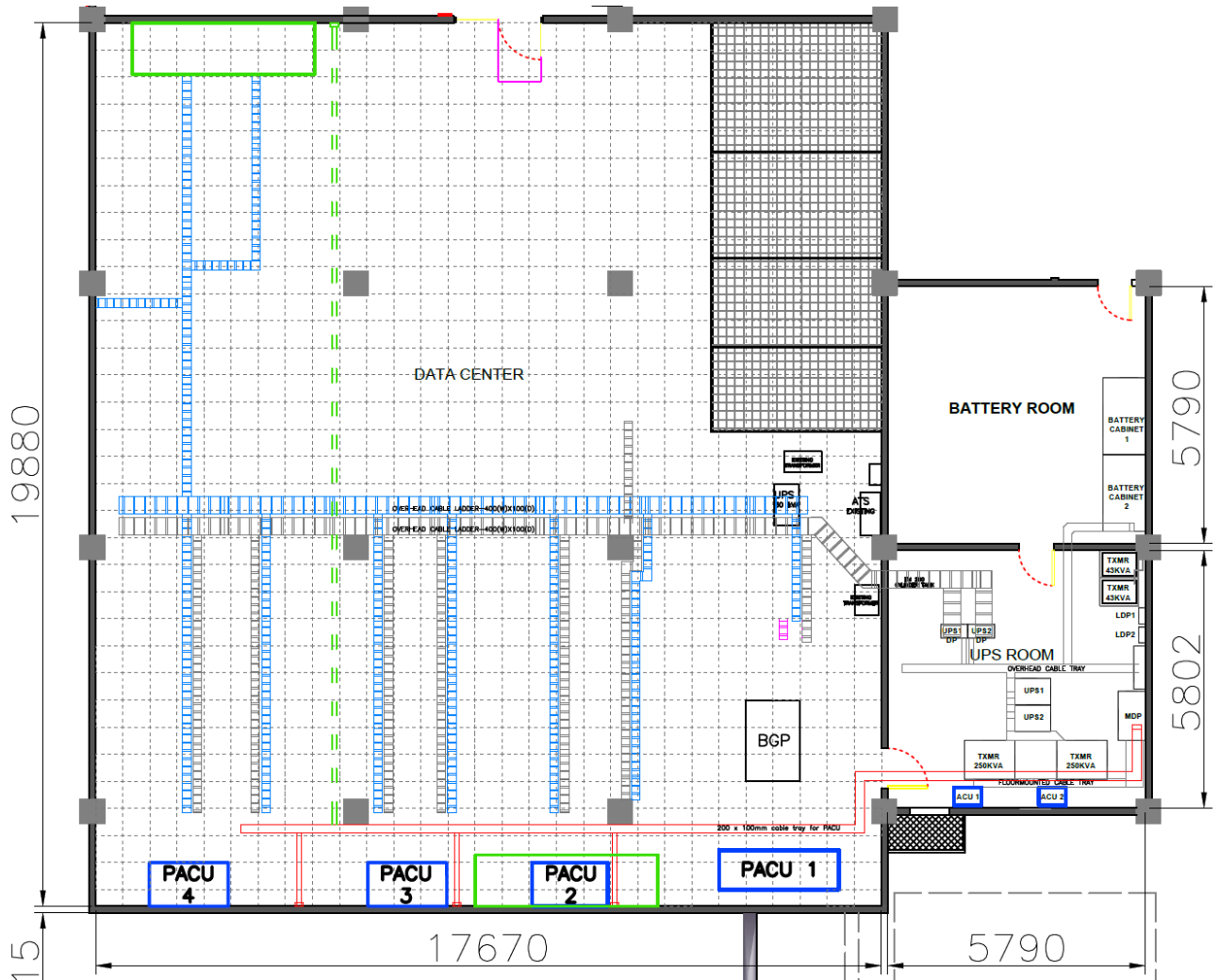


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	the Government Procurement Reform Act and its Implementing Rules and Regulations.	
	5.3. Technical assistance shall be provided within 2 hours upon receipt of call during normal working hours (Monday to Friday, 9:00AM to 6:00PM)	
	5.4. All components, system software, and parts supplied and installed by the contractor shall be guaranteed against defects in materials and workmanship for 1 year of substantial completion.	
	5.5. Labor to repair, reprogram, or replace these components shall be provided by the contractor at no charge during the effectivity of the warranty period.	
	5.6. Materials provided but not installed by the contractor shall be covered to the extent of the product only. Installation services shall be the responsibility of the contractor.	
	5.7. All corrective software modifications made during warranty periods shall be updated on all user documentation and on user and manufacturer archived software disks. The Contractor shall respond to the owner's request for warranty service within 24 standard working hours.	



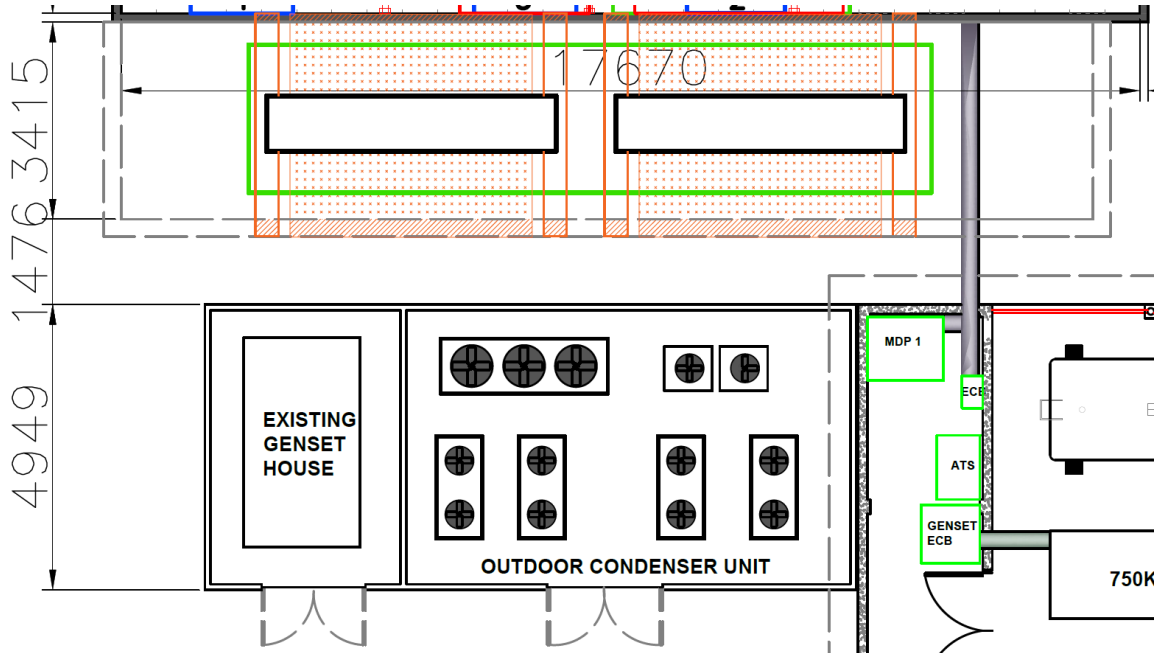
### Annex A: "Proposed location of Indoor Units of PACU and Electrical Feeder Line"



*Indoor units' possible location shown above are indicated by green solid lines. Location of cable tray for feeder line which will be mounted and installed in the ceiling plenum and is indicated by green broken lines. Final location will be based on the submitted CFD report.*



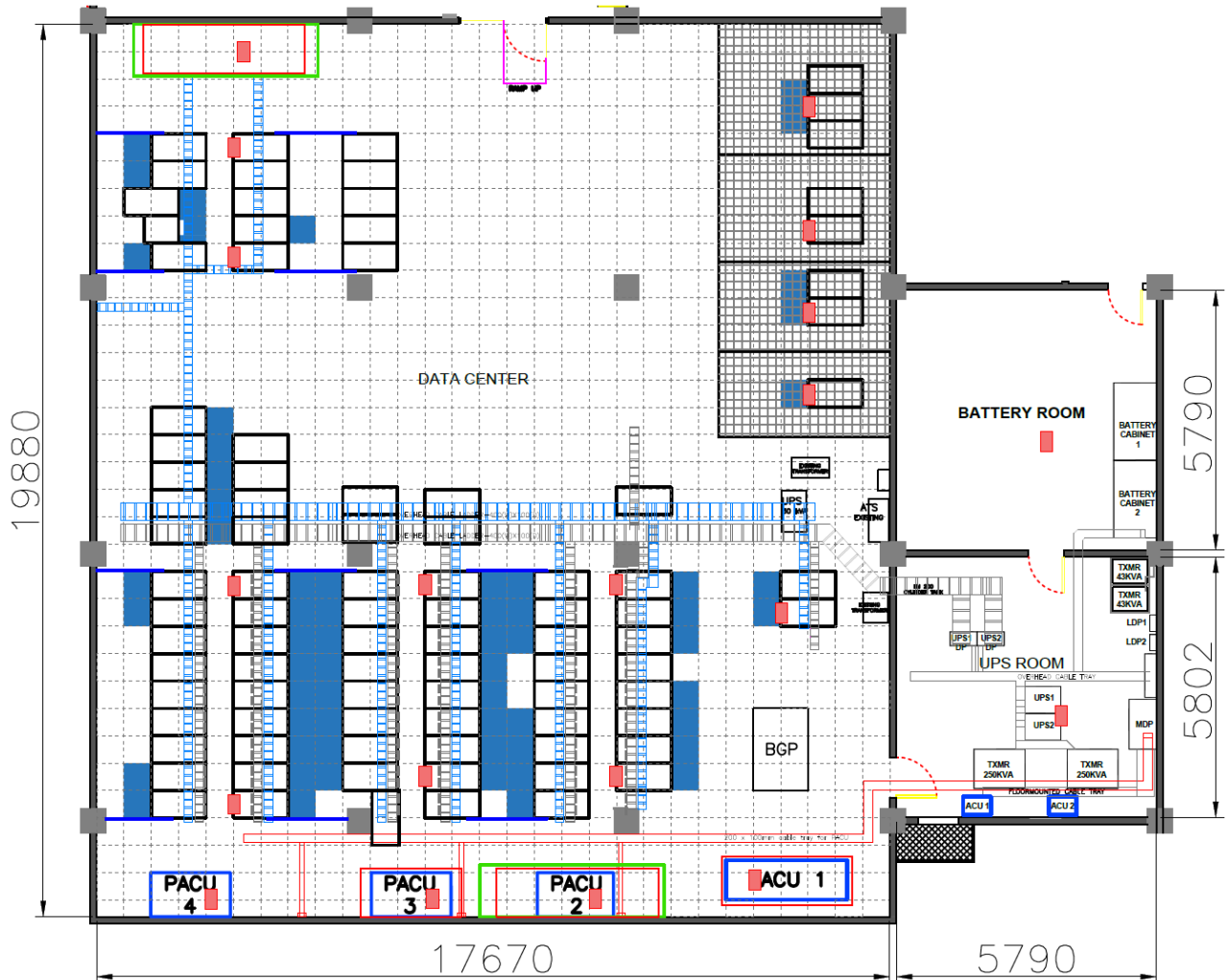
**ANNEX B: "Location of outdoor units of PACU".**



*Location of outdoor condensing units is shown above. The new condensers must be raised on the same level with the existing outdoor units. The green line represents the location of the new outdoor units. The orange rectangles are the steel platforms where the condenser units will be mounted. The orange rectangle with cross pattern is the catwalk for maintenance.*



### ANNEX C: "EMS Sensors Location"



Location of temperature and humidity sensors (20 sets) and water leak sensors (4 wires) for EMS indicated by red solid rectangles and red lines respectively. Sensors in the PACU units will be placed in the discharge area to measure Supply Air Temperature/Humidity.

Name of Company

Signature Over Printed Name  
Of Authorized Representative

Date



**DICT BIDS AND AWARDS COMMITTEE  
REVISED CHECKLIST OF REQUIREMENTS FOR BIDDERS  
AS OF 23 OCTOBER 2019**

Name of Company \_\_\_\_\_

**SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF TWO (2)  
FLOOR MOUNTED 25 TR PRECISION AIR CONDITIONING UNITS (PACU) FOR THE  
SERVER ROOM AND ENVIRONMENTAL MONITORING SENSORS FOR THE SERVER  
ROOM, BATTERY ROOM, AND UPS ROOM**

**DICTBAC-2019-022**

**PhP10,944,566.67**

Ref. No.	Particulars	
<b>ENVELOPE 1: ELIGIBILITY AND TECHNICAL DOCUMENTS</b>		
<b>ELIGIBILITY DOCUMENTS</b>		
<b>CLASS "A" DOCUMENTS</b>		
12.1	<b>(a) ELIGIBILITY DOCUMENTS</b>	
	i. Registration Certificate from the Securities and Exchange Commission (SEC) for corporations, Department of Trade and Industry (DTI) for sole proprietorship, or from Cooperative Development Authority (CDA) for cooperatives.	
	ii. Valid and Current Business/Mayor's Permit issued by the city or municipality where the principal place of business of the prospective bidder is located OR the equivalent document for Exclusive Economic Zones or Areas.	
	iii. Valid and Current Tax Clearance issued by Philippines' Bureau of Internal Revenue (BIR) Accounts Receivable Monitoring Division per Executive Order 398, Series of 2005.	
	iv. Copy of each of the following Audited Financial Statements for 2018 and 2017 (in comparative format or separate reports): a. Independent Auditor's Report; b. Balance Sheet (Statement of Financial Position); and c. Income Statement (Statement of Comprehensive Income)	
	v. PhilGEPS Certificate of Registration and Membership in accordance with Section 8.5.2 of the IRR, except for foreign bidders participating in the procurement by a Philippine Foreign Service Office or Post, which shall submit their eligibility documents under Section 23.1 of the IRR, provided, that the winning bidder shall register with the PhilGEPS in accordance with section 37.1.4 of the IRR.	
	vi. Statement of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (Annex I)	
	vii. Statement of Single Largest Completed Contract (SLCC) within the last five (5) years from the date of submission and receipt of bids equivalent to at least fifty percent (50%) of the ABC (Annex I-A).	
	viii. Duly signed Net Financial Contracting Capacity Computation (NFCC)* per Annex II, in accordance with ITB Clause 5.5 or a committed Line of Credit equivalent to at least ten percent (10%) of the ABC from a universal or commercial bank	



	<p>*NFCC = [(Current Assets minus Current Liabilities) (15)] minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract to be bid.</p> <p>Notes:</p> <ul style="list-style-type: none"> <li>• The values of the bidder’s current assets and current liabilities shall be based on the data submitted to BIR through its Electronic Filing and Payment System.</li> <li>• Value of all outstanding or uncompleted contracts refers those listed in Annex-I.</li> <li>• The detailed computation using the required formula must be shown as provided above.</li> <li>• The NFCC computation must at least be equal to the total ABC of the project.</li> </ul>	
<b>CLASS “B” DOCUMENTS (FOR JOINT VENTURE)</b>		
	<p>For Joint Ventures, Bidder to submit either:</p> <ol style="list-style-type: none"> <li>i. Copy of the JOINT VENTURE AGREEMENT (JVA) in case the joint venture is already in existence, or</li> <li>ii. Copy of Protocol / Undertaking of Agreement to Enter into Joint Venture signed by all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful. <b>(Annex III)</b></li> </ol> <p><b><u>The JVA or the Protocol/Undertaking of Agreement to Enter into Joint Venture (Annex III) must include/specify the company/partner and the name of the office designated as authorized representative of the Joint Venture.</u></b></p> <p><b>For Joint Venture, the following documents must likewise be submitted by each partner:</b></p> <ol style="list-style-type: none"> <li>1. Registration Certificate from the Securities and Exchange Commission (SEC) for corporations or from Department of Trade and Industry (DTI) for sole proprietorship, or from Cooperative Development Authority (CDA) for cooperatives;</li> <li>2. Valid and Current Business/Mayor’s Permit issued by the city or municipality where the principal place of business of the prospective bidder is located OR the equivalent document for Exclusive Economic Zones or Areas; In cases of recently expired Mayor’s / Business Permits, said permit shall be submitted together with the official receipt as proof that the bidder has applied for renewal with the period prescribed by the concerned local government units, provided that the renewed permit shall be submitted as a post-qualification requirement;</li> <li>3. Valid and current Tax Clearance issued by Philippines’ Bureau of Internal Revenue (BIR) Accounts Receivable Monitoring Division per Executive Order 398, Series of 2005;</li> <li>4. Copy of each of the following Audited Financial Statements for 2018 and 2017 (in comparative form or separate reports):             <ol style="list-style-type: none"> <li>a. Independent Auditor’s Report;</li> <li>b. Balance Sheet (Statement of Financial Position); and</li> <li>c. Income Statement (Statement of Comprehensive Income)</li> </ol> </li> </ol> <p>Each of the above statements must have stamped “received” by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions.</p> <p><b><u>OR</u></b></p>	



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	<p>5. Submission of valid and current PHILGEPS Certificate of Registration and Membership (Platinum Registration) together with Annex A in lieu of the eligibility documents.</p> <p><b>Note:</b> Bidder must ensure that all Class "A" Eligibility Documents are valid and current at the time of submission of PHILGEPS Certificate of Registration and Membership (Platinum Registration). In case any of the submitted Eligibility are not valid and current at the time of submission of Platinum Registration, bidders are required to submit the valid and current documents.</p> <ul style="list-style-type: none"> <li>In case the JV Partners opt to submit their Class "A" Documents, the Certificate of PhilGEPS Registration (Platinum Membership) shall remain as post-qualification requirement to be submitted in accordance with Section 34.2 of the 2016 Revised IRR of RA9184. "GPPB Circular 07-2017 dated 31 July 2017".</li> </ul>																	
	For <b>Technical Documents</b> , submission by any of the Joint Venture Partner constitutes compliance.																	
<b>TECHNICAL DOCUMENTS</b>																		
12.1 (b)(i)	<p>Bid security shall be issued in favor of the <b>DEPARTMENT OF INFORMATION AND COMMUNICATIONS TECHNOLOGY (DICT) valid at least one hundred twenty (120) days after date of bid opening</b> in any of the following forms:</p> <ol style="list-style-type: none"> <li>BID SECURING DECLARATION per <b>Annex IV</b>; or</li> <li>Cashier's / Manager's Check equivalent to at least 2% of ABC issued by a Universal or Commercial Bank.</li> <li>Bank Draft / Guarantee or Irrevocable Letter of Credit issued by a Universal or Commercial Bank equivalent to at least 2% of the ABC: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank</li> <li>Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security equivalent to at least 5% of the ABC</li> </ol>																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; text-align: center;"><b>Description</b></td> <td style="width: 40%; text-align: center;"><b>Supply, Delivery, Installation, Testing and Commissioning of Two (2) Floor Mounted 25 TR Precision Air Conditioning Units (PACU) for the Server Room and Environmental Monitoring Sensors for the Server Room, Battery Room, and UPS Room</b></td> </tr> <tr> <td style="text-align: center;"><b>Qty</b></td> <td style="text-align: center;">1 lot</td> </tr> <tr> <td style="text-align: center;"><b>Total ABC (PhP) (VAT Inclusive)</b></td> <td style="text-align: center;"><b>PhP10,944,566.67</b></td> </tr> <tr> <td style="text-align: center;"><b>BID SECURITY</b></td> <td style="text-align: center;"><b>PhP218,891.33</b></td> </tr> <tr> <td style="text-align: center;"><b>Cashier's / Manager's Check equivalent to at least 2% of the ABC (PhP)</b></td> <td style="text-align: center;"><b>PhP218,891.33</b></td> </tr> <tr> <td style="text-align: center;"><b>Bank Draft / Guarantee or Irrevocable Letter of Credit equivalent to at least 2 % of the ABC (PhP)</b></td> <td style="text-align: center;"><b>PhP218,891.33</b></td> </tr> <tr> <td style="text-align: center;"><b>Surety Bond equivalent to at least 5% of the ABC (PhP)</b></td> <td style="text-align: center;"><b>PhP547,228.33</b></td> </tr> <tr> <td style="text-align: center;"><b>Bid Securing Declaration</b></td> <td style="text-align: center;">No required percentage</td> </tr> </table>	<b>Description</b>	<b>Supply, Delivery, Installation, Testing and Commissioning of Two (2) Floor Mounted 25 TR Precision Air Conditioning Units (PACU) for the Server Room and Environmental Monitoring Sensors for the Server Room, Battery Room, and UPS Room</b>	<b>Qty</b>	1 lot	<b>Total ABC (PhP) (VAT Inclusive)</b>	<b>PhP10,944,566.67</b>	<b>BID SECURITY</b>	<b>PhP218,891.33</b>	<b>Cashier's / Manager's Check equivalent to at least 2% of the ABC (PhP)</b>	<b>PhP218,891.33</b>	<b>Bank Draft / Guarantee or Irrevocable Letter of Credit equivalent to at least 2 % of the ABC (PhP)</b>	<b>PhP218,891.33</b>	<b>Surety Bond equivalent to at least 5% of the ABC (PhP)</b>	<b>PhP547,228.33</b>	<b>Bid Securing Declaration</b>	No required percentage	
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12.1 (b)(ii)	<p>Proof of Authority of the Bidder's authorized representative/s:</p> <ul style="list-style-type: none"> <li>a. FOR SOLE PROPRIETORSHIP (IF OWNER OPTS TO APPOINT A REPRESENTATIVE): Duly notarized Special Power of Attorney</li> <li>b. FOR CORPORATIONS, COOPERATIVE OR THE MEMBERS OF THE JOINT VENTURE: Duly notarized Secretary's Certificate evidencing the authority of the designated representative/s.</li> <li>c. IN THE CASE OF UNINCORPORATED JOINT VENTURE: Each member shall submit a separate Special Power of Attorney and/or Secretary's Certificate evidencing the authority of the designated representative/s.</li> </ul>	
12.1 (b)(iii)	Omnibus Sworn Statements using the form prescribed. <b>(Annex V)</b>	
	a. Authority of the designated representative	
	b. Non-inclusion of blacklist or under suspension status	
	c. Authenticity of Submitted Documents	
	d. Authority to validate Submitted Documents	
	e. Disclosure of Relations	
	f. Compliance with existing labor laws and standards	
	g. Bidder's Responsibility	
	h. Did not pay any form of consideration	
i. Company Official Contact Reference		
12.1 (b)(iv)	Company Profile <b>(Annex VI)</b> . Company printed brochure may be included	
12.1 (b)(v)	Vicinity / Location of Bidder's principal place of business	
12.1 (b)(vi)	Certificate of Performance Evaluation <b>(Annex VII)</b> showing a rating at least Satisfactory issued by the Bidder's Single Largest Completed Contract Client stated in the submitted Annex I-A;	
12.1 (b)(vii)	Completed and signed Technical Bid Form <b>(Annex VIII)</b>	
12.1 (b)(viii)	Brochure (original or internet download) / Technical Data Sheet or equivalent document	
12.1 (b)(ix)	Valid and Current Certificate of Distributorship / Dealership/ Resellership of the following product being offered, issued by the principal or manufacturer of the product (if Bidder is not the manufacturer). If not issued by manufacturer, must also submit certification / document linking bidder to the manufacturer	
12.1 (b)(x)	Valid and current ISO 9001 Quality Management System Certificate issued to the manufacturer by an Independent Certifying body	
12.1 (b)(xi)	List of authorized Service Centers/Support Centers in the Philippines (with available spare parts, indicating address, telephone & fax number/s, e-mail address & contact person). In the event of closure of business, termination of franchise / service center, the supplier shall notify the DICT accordingly of the new service centers with telephone numbers and address who can provide the needed parts, supplies and service	
12.1 (b)(xia)	<p>Valid Business and Professional Certifications</p> <ul style="list-style-type: none"> <li>a. Certified Data Center Professional</li> <li>b. PRC License for Registered Mechanical Engineer</li> </ul>	



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	c. Safety Officer II Certification	
12.1 (b)(xii)	Compliance with the Schedule of Requirements per <b>Section VI</b>	
12.1 (b)(xiii)	Compliance with the <b>Revised Technical Specifications</b> as of 23 October 2019 per <b>Section VII</b>	
<b>ENVELOPE 2: FINANCIAL DOCUMENTS</b>		
13.1(a)	Completed and signed Financial Bid Form. Bidder must use, accomplish and submit Financial Bid Form hereto attached <b>Annex IX</b> .	
	<b>Description</b>	<b>Qty</b>
	<b>ABC P (VAT Inclusive) Total</b>	
	<b>Supply, Delivery, Installation, Testing and Commissioning of Two (2) Floor Mounted 25 TR Precision Air Conditioning Units (PACU) for the Server Room and Environmental Monitoring Sensors for the Server Room, Battery Room, and UPS Room</b>	1 Lot
	<b>PhP10,944,566.67</b>	
	The ABC is inclusive of VAT. Any proposal with a financial component exceeding the ABC shall not be accepted. Further, the sum of bid for each item indicated in the <b>Detailed Financial Breakdown per Annex X</b> must be equal to the signed and submitted Financial Bid Form per Annex VII.	
13.1(b)	<b>Detailed Financial Breakdown as per Annex X</b>	
13.1(c)(i) & 13.1(c)(ii)	Completed <b>"For Goods Offered from Abroad"</b> and/or <b>"For Goods Offered From Within the Philippine"</b> Forms per <b>Annex XI-A</b> and <b>Annex XI-B, whichever is applicable.</b>	
13.1(d)	If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a Certification from the DTI, SEC or CDA to be enclosed pursuant to the Revised IRR of R.A. 9184.	
<b>NOTE:</b>	<b>In case of inconsistency between the Checklist of Requirements for Bidders and the provisions in the Instruction to Bidders/Bid Data Sheet, the Instruction to Bidders/Bid Data Sheet shall prevail</b>	