LANDBANK
WE HELP YOU GROW.

SUPPLEMENTAL/BID BULLETIN NO. 2
For LBP-HOBAC-ITB-GS-20210603-02

PROJECT	:	**Precision Airconditioning Unit (PACU) for LANDBANK Data Center Head Office**
IMPLEMENTOR	:	**Procurement Department**
DATE	:	**August 12, 2021**

This Supplemental/Bid Bulletin is issued to modify, amend and/or clarify certain items in the Bid Documents. This shall form an integral part of the Bid Documents.

Modifications, amendments and/or clarifications:

1) The bidder/s are encouraged to use the Bid Securing Declaration as Bid Security.

2) The Terms of Reference (Annex D), Bill of Quantities (Annex E), Schedule of Requirements (Section VI), Technical Specifications (Section VII), Schedule of Prices (Form No. 2), and Checklist of Bidding Documents (Item Nos. 11 & 12 of the Eligibility & Technical Components and Item No. 3 of the Financial Component) have been revised. Please see attached revised Annexes D-1 to D-17, E-1 to E-2, and specific sections of the Bidding Documents.

3) The deadline for the submission of electronic bids for the above project is re-scheduled on **August 20, 2021** at **10:00 A.M.** Submission of physical bids (hard copy) shall **not** be accepted.

ALWIN L. REYES
Assistant Vice President
Head, Procurement Department and
HOBAC Secretariat

Section VI. Schedule of Requirements

The delivery schedule/contract period expressed as weeks/months/years stipulates hereafter a delivery/performance period which is the period within which to deliver the goods or perform the services in the project site/s.

Item Number	Description	Quantity	Delivered, Weeks/Months
1	Precision Air-Conditioning Unit for LANDBANK Data Center Head Office	**1 Lot (See attached Bill of Quantities for the breakdown of component, Revised Annex E)**	One hundred fifty (150) calendar days upon receipt of Notice to Proceed.

Delivery Site:
LANDBANK Plaza, M.H. del Pilar corner Dr. J. Quintos Street, Malate Manila.

Contact Person:
Ms. Josie M. Castro
Assistant Vice President
Data Center Management Department

Contact No.:
8-405-7763

Conforme:

_____
Name of Bidder

_____
Signature Over Printed Name of
Authorized Representative

_____
Position

Section VII - Technical Specifications

Specifications	Statement of Compliance **Bidders must state below either "Comply" or "Not Comply" against each of the individual parameters of each Specification preferably stating the corresponding performance parameter of the product 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 applicable laws and issuances.
Precision Air-Conditioning Unit for LANDBANK Data Center Head Office 1. **Terms of Reference per attached Revised Annexes D-1 to D-17 and Bill of Quantities per attached Revised Annex E.** 2. The following documents shall be submitted in support of the compliance of the Bid to the technical specifications and other requirements: 2.1 Manufacturer's Certificate stating that: ▪ Bidder is a certified partner or reseller of the offered PACU ▪ Model/product being offered is not yet End-of-Life (EOL) for the next five (5) years	**Please state here either "Comply" or "Not Comply"**

2.2 Curriculum vitae of the following personnel: ▪ At least three (3) technical personnel with a minimum of five (5) years of work experience in installation and maintenance of PACU ▪ At least one (1) onsite engineer 2.3 Referential document of at least two (2) completed projects including company name, name of project, contact numbers and email address of vendor's clients. 2.4 Certificate of Inspection issued by the Head, LANDBANK Data Center Management Department. Non-submission of the above documents may result in the post-disqualification of the bidder.	

Conforme:

_____
Name of Bidder

_____
Signature over Printed Name of
Authorized Representative

_____
Position

Form No. 2

SCHEDULE OF PRICES

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No. LBP-HOBAC-ITB-GS-20210603-02

1	2	3	4	5	6	7	8	9	10
Item	**Description**	**Country of Origin**	**Quantity**	**Unit Price (EXW)**	**Transportation and Insurance and all other costs incidental to delivery, per item**	**Sales and other taxes payable if Contract is awarded, per item**	**Cost of Incidental Services, if applicable, per item**	**Total Price, per unit (col 5+6+7+8)**	**Total Price delivered Final Destination (col 9) x (col 4)**
1	Precision Air-Conditioning Unit for LANDBANK Data Center Head Office	_____	**1 Lot (See attached Bill of Quantities for the breakdown of component, Revised Annex E)**	PhP _____	PhP _____	PhP _____	PhP _____	PhP _____	PhP _____
	Total Cost								**PhP**_____

Note: Price breakdown should be submitted using the attached Bill of Quantities Form (Revised Annex E).

_____
Name of Bidder

_____
Signature over Printed Name of
Authorized Representative

_____
Position

Please credit payment to:

Account Name: _____

Account Number: _____

LBP Branch: _____

Form No. 2

SCHEDULE OF PRICES
For Goods Offered from Abroad

Name of Bidder _____ Project ID No. LBP-HOBAC-ITB-GS-20210603-02

1	2	3	4	5	6	7	8	9	10
Item	**Description**	**Country of Origin**	**Quantity**	**Unit Price*** (specify port) or CIP named place (specify border point or place of destination)	**Transportation and Insurance and all other costs incidental to delivery, per item**	**Sales and other taxes payable if Contract is awarded, per item**	**Cost of Incidental Services, if applicable, per item**	**Total Price, per unit (col 5+6+7+8)**	**Total Price delivered Final Destination (col 9) x (col 4)**
1	Precision Air-Conditioning Unit for LANDBANK Data Center Head Office	_____	**1 Lot (See attached Bill of Quantities for the breakdown of component, Revised Annex E)**	PhP _____	PhP _____	PhP _____	PhP _____	PhP _____	PhP _____
	Total Cost								**PhP**_____

Note: Price breakdown should be submitted using the attached Bill of Quantities Form (Revised Annex E).

_____
Name of Bidder

_____
Signature over Printed Name of
Authorized Representative

_____
Position

Please credit payment to:

Account Name: _____

Account Number: _____

LBP Branch: _____

Checklist of Bidding Documents for Procurement of Goods and Services

The documents for each component should be arranged as per this Checklist. Kindly provide guides or dividers with appropriate labels.

Eligibility and Technical Components (PDF File)

- ***The Eligibility and Technical Component shall contain documents sequentially arranged as follows:***

  - **Eligibility Documents – Class "A"**

    Legal Eligibility Documents

    1. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); or all of the following:

       - Registration Certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives, or any proof of such registration as stated in the Bidding Documents;

       - Valid and current mayor's/business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or equivalent document for Exclusive Economic Zones or Areas; and

         In cases of recently expired Mayor's/Business permits, it shall be accepted together with the official receipt as proof that the bidder has applied for renewal within the period prescribed by the concerned local government unit: Provided, That the renewed permit shall be submitted as a post-qualification requirement in accordance with Section 34.2 of this IRR.

       - Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

    Technical Eligibility Documents

    2. Duly notarized Secretary's Certificate attesting that the signatory is the duly authorized representative of the prospective bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the bidding, if the prospective bidder is a corporation, partnership, cooperative, or joint venture or Original Special Power of Attorney of all members of the joint venture giving full power and authority to

its officer to sign the OSS and do acts to represent the Bidder. (sample form - Form No. 7).

3. Statement of the prospective bidder 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, within the last five (5) years from the date of submission and receipt of bids. The statement shall include all information required in the sample form (Form No. 3).

4. Statement of the prospective bidder identifying its Single Largest Completed Contract (SLCC) similar to the contract to be bid within the relevant period as provided in the Bidding Documents. The statement shall include all information required in the sample form (Form No. 4).

Financial Eligibility Documents

5. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.

6. The prospective bidder's computation for its Net Financial Contracting Capacity (NFCC) following the sample form (Form No. 5), or in the case of Procurement of Goods, a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

- **Eligibility Documents – Class "B"**

7. Duly signed valid joint venture agreement (JVA), in case the joint venture is already in existence. In the absence of a JVA, duly notarized statements from 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 shall be included in the bid. Failure to enter into a joint venture in the event of a contract award shall be ground for the forfeiture of the bid security. Each partner of the joint venture shall submit its legal eligibility documents. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance, provided, that the partner responsible to submit the NFCC shall likewise submit the statement of all its ongoing contracts and Audited Financial Statements.

8. For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos, Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.

9. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

- **Technical Documents**

10. Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).
11. **Revised Section VI – Schedule of Requirements with signature of bidder's authorized representative.**
12. **Revised Section VII – Specifications with response on compliance and signature of bidder's authorized representative.**
13. Duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

- **Post-Qualification Documents – [The bidder may submit the following documents within five (5) calendar days after receipt of Notice of Post-Qualification]:**

14. Business Tax Returns per Revenue Regulations 3-2005 (BIR No.2550 Q) VAT or Percentage Tax Returns for the last two (2) quarters filed manually or through EFPS.
15. Latest Income Tax Return filed manually or through EFPS.
16. Original copy of Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).
17. Original copy of duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

Financial Component (PDF File)

- ***The Financial Component shall contain documents sequentially arranged as follows:***

1. Duly filled out Bid Form signed by the Bidder's authorized representative (sample form - Form No.1).
2. Duly filled out Schedule of Prices signed by the Bidder's authorized representative (sample form - Form No.2).
3. **Duly filled out Bill of Quantities signed by the Bidder's authorized representative (Revised Annex E).**

LANDBANK Precision Air Conditioning Unit (PACU) Replacement for Data Center Headoffice TERMS OF REFERENCE 2021

Instructions on responding to this Terms Of Reference (TOR) Document

a. The vendor/bidder understands and agrees that the requirements specified in this document are deliverables for the proposed Replacement for PACU System on DATA CENTER Headoffice.

b. All deliverables, its specifications and functionalities, must be satisfied including its necessary prerequisites without additional cost to the Bank.

c. The vendor/bidder must answer at the third column whether the proposed Replacement for PACU complies or not—answer must be **YES** or **NO**.

d. The REMARKS column in the table is to be filled out according to the response in the third column:

   d.1. If answer to the third column is YES: REMARKS column is to be filled out with the complete and specific reference to the supporting document included in the bidding document to support answer/claim.

   d.2. If the answer to the third column is NO: REMARKS column is to be filled out with the justifications why the proposed Replacement for PACU cannot meet the specified requirement; include the complete and specific reference to the supporting document included in the bidding document to support answer/claim.

e. The supporting documents, cited references to the TOR should be indexed or labeled accordingly for easy identification and validation.

CAPABILITY	REQUIREMENT	WILL COMPLY? YES/NO	REMARKS
1. CAPACITY			
Precision Air Conditioning Unit Cooling 30 Tonner Capacity	Unit Quantity: One (1)		
	The proposed precision cooling must have a total Cooling Capacity: MAXIMUM: 105KW MINIMUM: 15KW		
	The proposed precision cooling must have a Sensible Cooling Capacity: MAXIMUM: 86KW MINIMUM: 15KW		
Dry Cooler Cooling Capacity	Unit Quantity: Two (2)		
	The proposed dry cooler must have a Heat Rejection Capacity: MAXIMUM: 70KW		

Revised Annex D-1

2. PERFORMANCE			
PACU Power Supply	The proposed precision cooling must have a power supply of 460V/3Ph/60Hz		
Air Flow	Downblast		
Air Flow Rate	The proposed precision cooling must have an airflow rate of 20,700 CMH		
Return Air Condition	The proposed precision cooling must be capable of at least a temperature of 24C		
	The proposed precision cooling must have a relative humidity of at least 50% RH		
Supply Air Condition	The proposed precision cooling must have a temperature of at least <11C		
	The proposed precision cooling must have a relative humidity of at least <97% RH		
PACU Energy Efficiency Ratio (Excluding Condensers)	The proposed precision cooling must have at least a Maximum Capacity at 3.43		
	The proposed precision cooling must have at least a Medium Capacity at 3.45		
	The proposed precision cooling must have at least a Minimum Capacity at 2.11		
Unit Power Consumption (Excluding Condensers)	The proposed precision cooling must have at least a Maximum Capacity at 32.08		
	The proposed precision cooling must have at least a Medium Capacity at 18.66		
	The proposed precision cooling must have at least a Minimum Capacity at 7.2KW		

Revised D-2

Condenser	Unit Quantity: Two (2)		
Condenser Type	The proposed Condenser type should be Shell and Tube or Panel with protection against seashore corrosive environment.		
Refrigerant Type	The proposed precision cooling must have a refrigerant type R410a		
Refrigerant Circuit	Unit Quantity: Two (2)		
Compressor Type	The proposed precision cooling must have a compressor type of Brushless Direct Current (DC) compressor with inverter		
Expansion Valve Type	The proposed precision cooling must have an Electronic Expansion Valve		
Air Filter Efficiency	The proposed precision cooling must be a G4		
Fan Type	The proposed precision cooling must have an Electronically Commutated (EC) Fan		
Fans	Unit Quantity: Three (3)		
Static Pressure	The proposed precision cooling must have a static pressure of 30 Pa		
Fan Input Power	The proposed precision cooling must have a fan input power of < 3.85KW		
Electric Reheat Type	The proposed precision cooling must have a Low thermal inertia electric heater Safety thermostat to prevent overheating		
Electric Reheat Capacity	The proposed precision cooling must have an electric reheat capacity of at least 24KW		
Humidifier Type	The proposed precision cooling must have a Steam humidifier with immerged electrodes		
Humidifier	Unit Quantity: One (1)		
Humidifier Capacity	The proposed precision cooling must have a Maximum of 15kg/hr		
Humidifier Power Input	The proposed precision cooling must		

Revised D-3

	have a Maximum of 11.4		
PACU Dimension and Weight (excluding Accessories and Condenser)	The proposed precision cooling must have a MAXIMUM Dimension: 2,640mm Width x 875mm Depth x 1990mm Height		
	The proposed precision cooling must weigh less than 750KG		
	Outdoor units such as condensers, pumps, etc. must fit on the current condenser unit area		
Pipe Connections/Sizes	The proposed precision cooling must have a Refrigerant Pipe Liquid Line: 3/4" Discharge Line: 1-1/8"		
	Condenser Pipe: Supply Line: 2" Return Line: 2"		
	Humidifier Pipe Size: 3/4"		
	Condensate Drain Pipe: 25mm		
Dry Cooler Performance Data	The proposed precision cooling must have a Dry cooler performance specs: Power Supply: 460V/3PH/60HZ		
	Air Inlet Temperature: 35C		
	Maximum Air Outlet Temperature: 41C		
	Maximum Water Flow Rate: 13 CMH		
	Minimum Capacity: 70KW		
	Minimum Air flow Rate: 39,600 CMH		
	Maximum Water Inlet Temperature: 43C		
	Maximum Water Outlet Temperature: 38C		
Dry Cooler Characteristics	The proposed precision cooling must have a dry cooler characteristics specs: Frame Design: V-Shape Coil		
	Fan Type: EC Fan (Electronically Commutated)		
	Dry Cooler Connections: 2"		
	Coil Type: Copper		

Revised D-4

	Fin Type: New magnesium-aluminum alloy with a special surface treatment for highly corrosive (near shoreline) environment protection		
Dry Cooler Dimension and Weight	The proposed precision cooling must have a MAXIMUM Dimension: 1,200mm Width x 2,850mm Depth x 1,660mm Height		
	The proposed precision cooling must have a MAXIMUM Weight: 425 KG		
Appurtenances	The proposed precision cooling must have a Redundant Pumps		
	The proposed precision cooling must have a Water Fill Tank		
	The proposed precision cooling must have a Water Meter		
	The proposed precision cooling must have a Valves and Strainer		
	The proposed precision cooling must have a Pressure Gauges and Thermometers		
	The proposed precision cooling must have a Flexible Connectors and Flange Connectors		

3. SCALABILITY			
Control System	The proposed precision cooling must have a digital inputs and outputs which, depending on the needs of the system, can be configured with specific features designed to simplify the installation and use of the unit.		
Electronic Fans	The proposed precision cooling must have a modulating the fan speed, units can be adapted to the actual system		

Revised D-5

	needs. Pressure or constant air flow management allows the supply of the effective quantity of air necessary to the system.		
Expansion Valve	The proposed precision cooling must have a valve wide adjustment range, it is possible to ensure the best cooling circuit operation even in the presence of varying thermal loads and under partialization conditions of the cooling capacity delivered by the circuit.		
DC Compressor with Inverter	The proposed precision cooling must have a wide adjustment range, the compressors will automatically adapt to the actual cooling demand, guaranteeing the optimal supply of cooling capacity even in the presence of varying thermal loads.		

4. INTEROPERABILITY AND RELIABILITY			
Control System	The proposed precision cooling must have a control via Simple Network Monitoring Protocol (SNMP), all key components of the unit are continuously supervised, with over 50 different variables that ensure the real-time monitoring of all operating cycles. The wide Full Graphic LCD display, access to all operating parameters is guaranteed in a simple and intuitive way, in addition to icons, progress bars, as well as daily and weekly temperature and humidity charts. The predictive safety systems designed to prevent unwanted shut-down failures and to an advanced system for recording alarms and hours of		

Revised D-6

	operation.		
Fans	The proposed precision cooling must have a control exerted via the Simple Network Monitoring Protocol (SNMP), it is possible to check all the fan operating values, ensuring the maintenance of the required working point via real-time feedback. The control via the Simple Network Monitoring Protocol (SNMP), checking the fans is simple and intuitive. The fan self-routing system facilitates maintenance procedures. The high reliability components and the independent management of each fan, a high level of system reliability can be ensured.		
Expansion Valve	The proposed precision cooling must have an advanced electronic controller, the entire cooling cycle of a unit can be controlled by constantly monitoring the operation conditions of all its components. With an advanced system of adaptive adjustment, difficult circuit calibrations are not necessary. The entire cooling cycle control allows the operation to be monitored without the need to use pressure gauges, probes, etc. With 10 different active safety systems, the cooling circuit locking risk can be reduced by identifying and solving abnormal working conditions in advance.		
Compressor	The proposed precision cooling must have a brushless DC synchronous motor, a wide modulation between 20% and 100% of the delivered cooling		

Revised D-7

	capacity is possible. The "High Pressure Shell" (HPS) system allows optimum lubrication of the compressor even at the lowest speed, separating the oil from the refrigerant directly inside the compressor. The direct control via the Simple Network Monitoring Protocol (SNMP) a continuous monitoring of the compressor operating conditions is possible with direct access from the terminal unit, or remotely via connection to supervision systems and building management systems (BMS). The inverter control system, the brushless DC motor and the "High Pressure Shell" system, it is possible to ensure the system high functional efficiency, minimizing the need to service the cooling circuit.		
Piping	Winning Bidder must provide new condensate drain and water supply tapping points of the new PACU, tapping must be on the nearest comfort room.		
Electrical	Winning Bidder must include new electrical conduit for the PACU ACCU/Outdoor unit suitable for outdoor condition		
	Winning Bidder must supply and install necessary and required electrical cables and conduit.		
	Proponent Unit to provide suitable power to accommodate power requirement of new PACU and Intelligent Fan system.		

Revised D-8

5. TECHNOLOGY			
Control System	The proposed precision cooling must have a NEW GENERATION ELECTRONIC CONTROL SYSTEM Units of Precision air conditioning range feature an advanced electronic control system, conceived and designed to deliver optimum performance and easier access to information. With specific features dedicated to energy savings and the optimized management of all the unit direct expansion and chilled water operating cycles.		
Fans	The proposed precision cooling must have a HIGH PERFORMANCE, LOW POWER CONSUMPTION ELECTRONIC FANS Units of Precision air conditioning range are equipped with state-of-the-art electronic fans which allow very high-performance levels to be achieved with minimum energy impact. The innovative design of the composite material blade, a 25% energy saving and a 4-5 dB(A) noise reduction are possible, compared to the previous generation of fans.		
Expansion Valve	The proposed precision cooling must have an ELECTRONIC EXPANSION VALVE Units of the Precision air conditioning range are equipped with electronic expansion valves to maximize the performance of direct expansion cooling circuits, especially under partialization conditions. By optimizing working conditions, it is possible to increase the cooling circuit		

Revised D-9

	energy efficiency by more than 40% compared to a system provided with a mechanical thermostatic expansion valve (TEV).		
Compressor	The proposed precision cooling must have a DC COMPRESSOR WITH INVERTER REGULATION The direct expansion units of the Precision air conditioning range can be equipped with DC compressors with inverter regulation which allow the delivered cooling capacity to be varied, maximizing the motor performance and reducing energy consumption. By optimizing the working conditions and efficiency of the brushless DC motor, it is possible to reduce the annual energy consumption by 35% in partial load. It is moreover possible to increase the energy efficiency ratio (EER) by over 25% compared to a system with a fixed speed compressor.		

6. MANAGEMENT			
Cooling Management	The proposed precision cooling must have a COOLING CIRCUIT ADVANCED MANAGEMENT SYSTEM Direct expansion Precision air conditioning units are equipped with an innovative control system of the cooling circuit, which allows simplified management, easier maintenance and optimized operational safety. The System allows the display and monitoring of the operating conditions of the whole cooling cycle, from both the local display and the supervision system as well as Building		

Revised D-10

	Management Systems (BMS) and/or Data Center Infrastructure Management System (DCIM) System. The system actively manages 10 different safety function, designed to provide high operational safety. The system makes it possible to significantly simplify all the installation and maintenance procedures of direct expansion units. Using tools to check the conditions of the cooling circuit will be no longer necessary; technicians will be able to easily access all the operating conditions by simply pressing a button on the display. The ability to interface with the major supervision systems and building management systems (BMS), monitoring the entire cycle of a unit will be even easier and quicker.		
Network Management	The proposed precision cooling must have a THE INTELLIGENT LOCAL NETWORK The units of precision air conditioning range are equipped with an innovative control system in a local network (LAN) which allows them to be managed and serviced more easily while improving operational safety. ACTIVE DISTRIBUTION OF WORKLOAD The innovative system allows the concept of local network to be revolutionized. Taking advantage of the modulation capabilities of its components, this system makes it possible to actively share the workload		

Revised 0-11

	among all the units in the local network. Compared to the latent redundancy Duty / Stand-by (n+1 or n+n) system, where the backup units were stationary waiting for the onset of a problem, the system allows the units connected to the network to be kept always active. The system of active average of ambient conditions, the system allows the units to work in unison to monitor thermo-hygrometric conditions and air pressure, ensuring there are no "hot spots" due to inactive units.		

7. QUALIFICATION REQUIREMENTS	DOCUMENTARY REQUIREMENTS		
The bidder must be a certified partner or reseller of the offered PACU	Manufacturer's Certificate		
Must have at least three (3) technical personnel with a minimum of five (5) years' work experience in installation and maintenance of PACU	Curriculum vitae of each personnel		
Must have at least one (1) engineer onsite during LBP maintenance activities			
The Principal/Partner must have completed a Contract for PACU installation in Data Center for one (1) local Universal Bank other than Landbank and one (1) organization from another industry.	Referential documents for at least two (2) completed project, including company name, name of project, contact numbers and email address of vendor's clients.		
Site Survey: Prior to submission of bidding proposal, the vendor must coordinate with LANDBANK-DCMD to conduct a site survey at Data Center Headoffice for PACU installation sites. The survey is necessary to ensure that the PACU will be able to function properly and according to expectation.	Non-disclosure Agreement (NDA) signed by the bidder's authorized representative must be submitted two (2) calendar days prior to the conduct of site inspection thru email.		

Revised D-12

The site inspection will be conducted at least five (5) calendar days before opening of bids from Monday to Friday 8:00am-3pm. Contact persons are Arnhel Alfred Ballocanag and Dyemmarie Sabanal with email addresses aballocanag@mail.landbank.com and dsabanal@mail. landbank.com, respectively. Both can be contacted thru phone number 8-5220000 local 7763.	Certificate of Inspection will be issued by DCMD Head for the bidders who will conduct site inspection which shall be form part of the bid proposal.		
The appliance/solution model/product line should not be End-of-Life (EOL) for the next five (5) years.	Manufacturer's Certificate that the model/product should not be End-of-Life (EOL) for the next five (5) years.		
8. SCOPE OF WORK			
General Scope	The Winning Bidder shall supply, deliver, install and configure complete working precision air conditioning systems that sufficiently satisfy the required capacity and specification.		
Dismantling and Hauling out of Existing Units	The Winning Bidder shall include dismantling and proper disposal of existing precision air conditioning unit including all accessories, electrical and mechanical piping related to the dismantled unit with the approval and supervision of LANDBANK. The Winning Bidder must deliver old PACU unit and accessories and piping to the LANDBANK Antipolo Warehouse.		
Project Management	The Winning Bidder shall provide project management services during the implementation of this project, and update LANDBANK on weekly progress report.		

Revised D-13

Operational Interruption	The Winning Bidder shall implement this project with MINIMAL to NO operational interruption and bidder shall provide enough cooling and humidification during implementation of this project to prevent heating and moisture problems during implementation.		
Bonds and Insurances	Contractor's All Risk Insurance - 100% of contract value		

9. WARRANTY AND SUPPORT			
All Equipment Warranty	The proposed precision cooling must have a warranty of three (3) years from equipment start-up and commissioning.		
Technical Support	Support: 24X7 telephone, email, remote, and on-site support for three (3) years.		
	Support must always be available and accessible on demand as part of the support and maintenance agreement for three (3) years.		
Maintenance Cost	After the three (3) years warranty, Maintenance Agreement (MA) cost must not be more than 15% of the purchase cost, VAT included, and should be in Philippine Peso		

10. TRAININGS AND OTHER REQUIREMENTS			
User Operation Training	The Winning Bidder shall provide administration training and knowledge transfer for a maximum of ten (10) DCMD personnel and five (5) FMD personnel to enable the team to		

Revised 0-14

	manage day-to-day operations of the PACU installed. Training shall be onsite for at least one (1) day and in batches, depending on the availability of both parties and certain government restrictions due to COVID protocols and will be provided with Certificate of Completion.		
Data Center Cooling Best Practices Training	The Winning Bidder shall provide Data Center Cooling Best Practices Training to the involve teams of LANDBANK to improve learnings and update on the best practices, advancement and technologies used in data center cooling.		
Bank's Compliance	The Winning Bidder must comply with the requirements in relation to Third Party/Vendor Assessment conducted by the Bank. Must submit [eg. Latest Financial Statement (FS), Business Continuity Plan (BCP) that are related to the Bank, and List of Updated Technical Support (include name, contact numbers and email address).		

11. GENERAL AVAILABILITY			
Product Offering	Proposed solution model should be brand new		
	The proposed model/product should be verifiable via published public documents or thru the product's website		

12. PROJECT TIMELINE			
Project Timeline	One Hundred Fifty (150) calendar days upon receipt of Notice to Proceed (NTP).		

Revised 0-15

13. DOCUMENTATION			
Documentation	Brochure		
	Manuals		
	Performance Data		
	Methodology		
	Project Timeline/Gantt Chart		
	Spare Parts List		
	Maintenance Scope of Works		
	Electrical Single Line Diagram		
	Mechanical Schematic Diagram		
	Shop Drawing and Layouts		
Materials and Tools	The Winning Bidder shall submit calibration certificates for all measuring and testing tools. Measuring materials (i.e. Pressure gauge and Thermometers) that will be used in this project requires calibration certificates prior to installation.		
Media and Format	All documentation must be in hard and soft copies; Soft copies must be stored on a compact disk and a USB drive; Soft copy documentation must be in a non-editable format.		
Ownership	All documentation shall be the property of the Land Bank of the Philippines and shall reserve the right to reproduce at no additional cost		

14. OTHERS			
Data Center Water Leak Detector	Winning bidder must provide and install brand new water leak detector to the perimeter of the Malate Data Center area. This also includes removal/ dismantling of Water Leak Detector and proper disposal to Antipolo Warehouse together with the old PACU.		

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	Water leak detector must have a display unit to show where exact water leak is located and must have audio and visual alarm. Winning Bidder must train LANDBANK personnel on the water leak unit. All water leak detector documentation must be in hard and soft copies; Soft copies must be stored on a USB drive separate from PACU documentation; Soft copy documentation must be in a non-editable format.		
Booster Fans	Winning Bidder must provide four (4) Aluminum Perforated Panel with dimension of 24" x 24" with Intelligent Temperature Fan system to boost cold air delivery from new PACU-2 to other areas of the Data Center.		

15. Delivery Schedule and Payment terms			
Payment Terms	50% upon delivery of products, and 50% upon completion of installation.		
END of Terms of Reference			

Noted/Approved by:

JOSIE M. CASTRO
Assistant Vice President, DCMD

Revised D-17

PROJECT : **SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF PRECISION AIR CONDITIONING UNIT (PACU) WITH THREE YEARS WARRANTY AND SUPPORT FOR HEADOFFICE**

SUBJECT : Bill of Quantities Form

Description of Cost	Quantity	Unit Cost	Total Cost
Precision Air Conditioning Unit Cooling at LANDBANK Head office			
30 Tonner Precision Air Conditioning Unit Cooling	1 unit	P_____	P_____
Inclusive of the following:			
▪ Outdoor Condenser	2 units	_____	_____
▪ Copper Piping	1 Lot	_____	_____
▪ Electrical peripherals ▪ Electrical conduit ▪ Electrical cables and conduit	1 Lot	_____	_____
▪ Booster Fans	4 units	_____	_____
▪ Water Leak Detector	1 Lot	_____	_____
Services:			
▪ Installation Cost	1 Lot	_____	_____
▪ Dismantling and Hauling-out of old PACU at LANDBANK Antipolo Warehouse	1 Lot	_____	_____
▪ Three (3) Years 24/7 Local and Remote Technical and Help Desk Support Services	1 Lot	_____	_____
▪ Three (3) Years Onsite Support Services	1 Lot	_____	_____
▪ Skill Transfer minimum of one (1) training day for 10 DCMD personnel and 5 FMD personnel	1 Lot	_____	_____
		Total Cost inclusive of VAT:	P_____

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Note: The Supplier shall fill in rates and prices for all items of the Bill of Quantities. Quotations not addressing or providing all of the required items in the Bill of Quantities shall be considered non- responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non- responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free.

Submitted by:

_____
Name of Bidder

_____
Printed Name of Authorized
Representative with Signature

_____
Date

Revised Annex E-2