Terms of Reference for t. procurement of Air-conditioning Unit (ACU, LANDBANK Agri-Hubs for 2020

TERMS OF REFERENCE

A. Name and Description of the Project:

One (1) lot - Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer's standards for the establishment of the five (5) New LANDBANK Agri-Hubs for 2020.

B. Objective of the Project:

To properly ventilate the Office area.
 To maintain the corporate image of the Bank.
 To provide a conducive banking and working area.

C. Scope of the Project and Delive	ery Time/Completion:
Supply, delivery and installation	 Mobilization of manpower and equipment/tools for the following LANDBANK Agri-Hubs, to wit: Sual Municipal Complex Hall, Labrado-Sual Rd., Pangasinan Poblacion Rd., San Fabian, Echague, Isabela Del Carmen St., Calabangga, Camarines Sur Brgy. Maynganay Sur, Sta. Maria, Ilocos Sur Barotac Viejo Trade Center, Zulueta Drive, Poblacion, Barotac Viejo Six (6) units of 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) Ten (10) units of 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) Installation, testing and commissioning Cleaning-up works and demobilization For technical specifications:
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
3. Installation Period	Thirty (30) calendar days per Office upon receipt of Notice to Proceed (NTP) and availability of project site
4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser Diagram	See Annex A See Annex B
6. Certificate of Satisfactory Performance Format 7. Start-up Data Sheet	See Annex C See Annex D
7, Start up Data Silott	

Prepared by:

Reviewed by:

Approved by:

CHRISTOPHER R. ODAD Engineer, VBG

RICHARD MICHAEL B. DIMAPILIS Team Leader, North NCRBG

TON WINES ENRICO DJ. SAMANIEGO Head, PMED

Page 1 of 1

ACU TOR: Rev. January 28, 2020

Revised Annex C-1

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer's standards for LANDBANK Pagadian Balintawak Branch

B. Objective of the Project:

- 1. To properly ventilate the Office area.
- 2. To maintain the corporate image of the Bank.
- 3. To provide a conducive banking and working area.

C. Scope of the Project and Delivery Time/Completion:

Supply, delivery and installation	 Mobilization of manpower and equipment/tools at Pagadian Balintawak Branch, Pres. L2, Blk 16, Corazon Aquino Regional Gov't Center, Brgy. Balintawak, Pagadian City Two (2) units 2.0 TR Wall mounted, split type airconditioning unit (Inverter Type) Three (3) units 3.0 TR Ceiling mounted, split type airconditioning unit (Inverter Type) One (1) unit 3.0 TR Floor mounted, split type airconditioning unit (Inverter Type) Two (2) units 5.0 TR Floor mounted, split type airconditioning unit (Inverter Type) Installation, testing and commissioning Cleaning-up works and demobilization For Technical Specifications: 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 5.0 TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
Installation Period	Forty Five (45) calendar days upon receipt of Notice to Proceed (NTP) and availability of project site
4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser	See Annex A See Annex B
Diagram 6. Certificate of Satisfactory Performance	See Annex C
7. Start-up Data Sheet	See Annex D

Prepared by:

Reviewed by:

Approved by:

CHRISTOPHER R. ODAD Engineer, VBG

RICHARD MICHAEL B. DIMAPILIS Team Leader, North NCRBG ENRICO DJ. SAMANIEGO Head, PMED

A. Name and Description of the Project:

One (1) lot - Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer's standards for LANDBANK Tagbilaran Branch including dismantling and reinstallation of existing units.

B. Objective of the Project:

- 1. To properly ventilate the Office area.
- 2. To maintain the corporate image of the Bank.
- 3. To provide a conducive banking and working area.

C. Scope of the Project and Delivery Time/Completion:

1. Supply, delivery and installation	 Mobilization of manpower and equipment/tools at LANDBANK Tagbilaran Branch, Bohol Provincial Capitol Complez, J.S Torraalba cor. Marapao Sts., Tagbilaran City, Bohol Seven (7) units of 3.0TR Ceiling Mounted, split type airconditioning unit (Inverter Type) Relocation, Reinstallation and Recommissioning of two (2) 3.0 TR Floor Mounted Existing ACUs Installation, testing and commissioning Dismantling of five (5) existing units Cleaning-up works and demobilization For technical specifications: 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 5.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
3. Installation Period	Thirty (30) calendar days upon receipt of Notice to Proceed (NTP) and availability of project site
4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser	See Annex A See Annex B
Diagram 6. Certificate of Satisfactory	See Annex C
Performance Format 7. Start-up Data Sheet	See Annex D

Prepared by:	Reviewed by:	Approved by:
CHRISTOPHER R. ODAD Engineer, VBG	RICHARD MICHAEL B. DIMAPILIS Team Leader, North NCRBG	ENTICO DJ. SAMANIEGO Head, PMED

A. Name and Description of the Project:

One (1) lot - Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer's standards for LANDBANK imelda (Zamboanga Sibugay) Branch.

B. Objective of the Project:

- 1. To properly ventilate the Office area.
- 2. To maintain the corporate image of the Bank.
- 3. To provide a conducive banking and working area.

C. Scope of the Project and Delivery Time/Completion:			
1. Supply, delivery and installation	 Mobilization of manpower and equipment/tools at LANDBANK Imelda Branch, Commercial Complex Area, Poblacion, Imelda, Zamboanga, Sibugay Five (5) units of 3.0TR Ceiling Mounted, split type airconditioning unit (Inverter Type) Two (2) units of 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) Provide Safety Health Protocols as per required by the Local Government Unit (LGU) (e.g. Swab test, Certificate, etc.) Installation, testing and commissioning Cleaning-up works and demobilization For technical specifications: 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 5.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4 		
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s Thirty (30) calendar days upon receipt of Notice to Proceed (NTP)		
3. Installation Period	and availability of project site		
4. I. General Notes	See Annex A		
II. Qualification and Documentary Requirements III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser Diagram	See Annex B		
Certificate of Satisfactory Performance Format	See Annex C		
7. Start-up Data Sheet	See Annex D		

Prepared by:	Reviewed by:	Approved by:
Chlad	>	Mensey
CHRISTOPHER R. ODAD	RICHARD MICHAEL B. DIMAPILIS	ENRICO DI SAMANIEGO
Engineer, VBG	Team Leader, North NCRBG	Head, PMED /



A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Air-conditioning Units, complete with standard accessories per manufacturer's standards for LANDBANK Tuguegarao Branch including dismantling of existing units.

B. Objective of the Project:

- 1. To properly ventilate the Office area.
- 2. To maintain the corporate image of the Bank.
- 3. To provide a conducive banking and working area.

C. Scope of the Project and Delivery Time/Completion:

Supply, delivery and installation	Mobilization of manpower and equipment/tools at LANDBANK Bldg., Bagay Road Brgy. San Gabriel,
	Tuguegarao City, Cagayan
	> Five (5) units - 5.0 TR floor Mounted, Split type air-
	conditioning unit (Inverter Type)
	> One (1) unit - 2.0 TR Wall Mounted, Split type air-
	conditioning unit (Inverter Type)
	 Installation (including power supply of 2.0TR ACU), testing
	and commissioning
	 99 meters- 3.5 mm² THHN wires (2 hot,1 gnd wires)
	• 13 length – 20 mm PVC pipe
	 1 pc - 30AT/50AT,2P,240VAC Bolt-on Circuit Breaker
	(install to PP Panel)
	Cleaning-up works and demobilization
	Dismantling of existing units
	For Technical Specifications:
	2.0TR Wall Mounted, split type air-conditioning unit
	(Inverter Type) – see attachment 1
	3.0TR Floor Mounted, split type air-conditioning unit
	(Inverter Type) – see attachment 2
	 3.0TR Ceiling Mounted, split type air-conditioning unit
*** · · · ·	(Inverter Type) – see attachment 3
-	• 5.0 TR Floor Mounted, split type air-conditioning unit
	(Inverter Type) – see attachment 5
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
3. Installation Period	Thirty (30) calendar days upon receipt of Notice to Proceed
	(NTP) and availability of project site
4. I. General Notes	See Annex A
II. Qualification and	
Documentary Requirements	
III. Billing Requirements	
IV. Payment Terms	
5. Refrigerant Pipe Insulation	See Annex B
Details, Schematic Piping	
Diagram and Electrical Riser	
Diagram	
6. Certificate of Satisfactory	See Annex C
Performance Template	
7. Start-up Data Sheet	See Annex D



Terms of Reference for the procurement of Air-conditioning Unit (ACU)

Prepared by:

MELVIN C. ATIENZA Engineer, NCRBG-South

Endorsed by:

ANABELLA M. REYES Head, PDMU North Reviewed by:

CLASS D

CHARLIE A. ELLAMIL Team Leader, NCLBG

Approved by:

ENRICO DJ. (SAMANIEGO

Head, PMED

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of Airconditioning Units, complete with standard accessories per manufacturer's standards for LANDBANK Burauen Branch Construction.

B. Objective of the Project:

- 1. To properly ventilate the Office area.
- 2. To maintain the corporate image of the Bank.
- 3. To provide a conducive banking and working area.

C. Scope of the Project and Delivery Time/Completion:

Supply, delivery and installation	 Burauen Public Market, Burauen, Leyte Five (5) units – 3.0 TR Ceiling Mounted, Split type airconditioning units (Inverter Type) One (1) unit – 2.0 TR Wall Mounted, Split type airconditioning units (Inverter Type) Installation, testing and commissioning Cleaning-up works and demobilization For Technical Specifications: 2.0TR Wall Mounted, split type air-conditioning unit (Inverter Type) – see attachment 1 3.0TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 2 3.0TR Ceiling Mounted, split type air-conditioning unit (Inverter Type) – see attachment 3 5.0 TR Floor Mounted, split type air-conditioning unit (Inverter Type) – see attachment 4
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
3. Installation Period	Thirty (30) calendar days upon receipt of Notice to Proceed (NTP) and availability of project site
 4. I. General Notes II. Qualification and Documentary Requirement III. Billing Requirements IV. Payment Terms 5. Refrigerant Pipe Insulation Details, Schematic Piping Diagram and Electrical Riser 	See Annex A See Annex B
Diagram 6. Certificate of Satisfactory Performance Template 7. Start-up Data Sheet	See Annex C See Annex D

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

Prepared by:

MELVIN C. ATIENZA

Engineer, NCRBG-South

Endorsed by:

Head, PDMU North

Reviewed by:

Team Leagler, NCLBG

Approved by:

Messarean ENRICO DJ. SAMANIEGO Head, PMED

Attachment 1

2.0 TR Wall Mounted (Inverter Type)

	Features	LBP SPECIFICATIONS
Fan Coll	Application Type	Wall Mounted
Coaling	Capacity, minimum	20,000 Btu/hr <i>or</i> 21,000 KJ/hr <i>or</i> 5,83 kW (whichever of the three)
Energy and many	Efficiency Ratio (EPR), n	9.76 Btu/W-hr or 10.3 kJ/W-hr or 2.86 W/W-hr (Whichever of the three)
	(HAMILLO) Minimum	(988/776/562) CMH or (16/12/9) CMM or (581/456/330) CFM (Whichever of the three)

٠.	Property Street Street	Caramana da managan m	The second secon	
E-GAN.	Features	a Unit 🖖	LPB SPECIFICATIONS	
1	Power Supply	VH2	22 Gal 24 B Q (1964)	, 50 , 21
TO VALUE OF	Unase	Ø	ande en	
one of Gale	System Power Input, max	TWatts	250	
Ü	Sound Pressure Level (Indoor), max	† dB(A)*	The state of the s	٠.
Account to County	Compressor Type		Scroll/802ry	ď,
43	PATOPAL BUSINESS		R-410A/R-32	
	Controls			ļ cz

Attachment ²

3.0 TR Floor Mounted (Inverter Type)

	language and the control of the surrounding of the control of the
Features	LBP SPECIFICATIONS
Fan Coil Application Type	Floor Mounted
Cooling Capacity, minimum	34,000 Btu/hr or 35,800 kJ/hr or 9.90 kW (whichever of the three)
Energy Efficiency Ratio (EER), printrum	9.76 Btu/W-hr or 10.3 KJ/W-hr or 2.86 W/W-hr (Whichever of the three)
Air-Flow (Hi/Mid/Le), minimum	(1410/1140/562) CMH or (23/19/14) CMM of (829/670/494) CFM (Whichever of the three)

			And the second s
المُرات ميان بالمان مانان	Features	and the state of	LPB SPECIFICATIONS
P	ower Supply	[V-Hz]	226 228 EU
Hillian		10 g 76	Single
3	ystem Power Input, max	Walks	200 marian and a superior and a supe
S	ound Pressure Level (Indoor), max	dB(A)+	
TC.	ompressor Type	The American	Scroll/Rotar
1	erie in a serie de la companyant de la c	Lauria (1905), applicato (1905), imperiore	R-410A/R-32
10	ontols to year the state of the	Aries.	EXPERIMENTAL PROPERTY OF THE P

Attachment 3

3.0 TR Ceiling Mounted (Inverter Type)

Features	LBP SPECIFICATIONS
Fan Coli Application Type	Geiling Mounted
Cooling Capacity, minimum	34,000 Stu/hr or 35,800 kJ/hr or 9.90 kW (whichever of the three)
Energy Efficiency Ratio (EER), 📆	9.76 Stu/W-hr or 10.3 kJ/W-hr or 2.86 W/W-hr (Whichever of the three)
Air-Flow (Hi/Mid/Lo), minimum	(1200/1080/950) CMH & (20/18/15) CMM & (706/635/365) CFM (Whichever of the three)

	The same of the sa	à
Salahin.	Peatures Unit LPB SPECIFICATIONS	ř.
Die gund	Power Supply 220-240, 60	
9	Place which is sent to be a supplied to the s	
	System Power Imput, max Watts	
	Sound Pressure Level (Indoor), max (iB(A) 55	
	Compressor Type Scroli/Rotary	
· Mgu	Refrigerant R-410A/R-32	-
	Controls 1 remote	- Marine

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Attachment 4

5.0 TR Fjoor Mounted (Inverter Type)

Features .	LBP SPECIFICATIONS
Fan Coil Application Type	Floor Mounted
Coding Capacity, minimum	55,000 Stuffer or 58,000 k3/hrr or 16.0 kW (whichever of the three)
Energy Efficiency Ratio (EER), minimum	9.76 Btu/W-hr or 10.3 kJ/W-hr or 2,86 W/W-hr (Whichever of the three)
Air-Flew (HyMid/Le), minimum	(2200/1900/1500) CMH or (36/31/25) CMM or (1294/1118/882) CFM Whichever of the three)

그래 사이 이렇다는 한 함께 바음을 받는 사이들이 그렇게 하는 사람들이 되었다. 그 사이를 보고 있는 사람들이 그렇게 한다.	1 - 100 mg 1 - 12 12 12 12 12 12 12 12 12 12 12 12 12	The state of the s
The Addition of the Addition o	Unit	LPB SPECIFICATIONS
Power Supply	V-Hz 136	220-240, 60
Place	M	1943 - La Contra de Caracteria
System Power Input, max	Wals	5,680
Sound Pressure Level (Indoor), max	dB(A)	A support of the supp
Compressor Type	\$\frac{1}{2} = \frac{1}{2} \fr	Lac marketin Scholl/Rotaty, particularly
Refrigerant		R-410A/R-32
Controls	42 Naj	Analysis and a remote

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ANNEX A

I. General Notes

1. Piping, Electrical and Accessories

a. Refer to Arinex B for refrigerant pipe insulation detail, adversatic piping diagram
 and electrical riser diagram;

b. Refrigerant piping shall be TYPE-M, Hard Drawn Seamless Copper using the

standard pipe size recommended by the manufactures;

c. Pipes shall be anchored, plumbed and parallel to the building's vertical and horizontal lines. Pipe hangers and supports shall be of the type as specified. Pipe slesves thru walls and wall penetrations, roofs and floors shall be provided by the supplier/installer. The gap between the pipe and the pipe sleeves must be provided with water proofing and sealant;

d. All piping shall be leak tested with pressure of at least 1.5 times the designed

working pressure;

- e. Refrigerant suction line shell be insulated with pre-moulded elestometic rubbet insulation 15 mm thick for 3.0 TR and below, and 25 mm thick for 5.0 TR up to 10 TR. Insulation installed outdoor shall be provided with weather proof coating;
- 4. Without additional cost to the bank, the supplier/installer shall supply and install the following components/parts if not included in the unit's standard accessories (for split-type units with capacities of 2.0 TR and above)

*Liquid Line Filter Orler, Flare-type

Magnetic Contactor with External Thermal Overload

■

On-Delay Timer

Plug-in type High and Low Pressure Switches

g. Provide NEMA type, UL listest polition direcult breakers for FCU and ACCU

h. Use EMT for electrical pipes and stranded THHN wires for feeder lines;

 Use color blue, schedule 40 PVC pipe for drain lines using the appropriate size recommended by the manufacturer, but not less than I inch in diameter.

2. Öther Requirements:

 a. Prospective ACU contractors are encouraged to inspect, verify and assess the existing condition, location and details of the project;

b. All equipment, units and parts/components to be supplied shall be brand new,

clean and approved products of reputable manufacturers;

c. All works shall conform to the provisions (latest edition) of the Philippine Mechanical, Electrical and Building Codes, the Clean Air Act, Environmental Laws and other applicable laws and regulations;

d. It fine with the Bank's Environmental Management System (EMS) program and being an ISO 14001 certified institution, the winning ACU contractor is required to use appropriate equipment, band tools and personal profestive gears and equipment (gloves, rubber boots, masks, etc.) during the installation, repair or maintenance activities;

e. All equipment shall be installed in approximate location as shown in the

- medianicai plans.
- f. Any proposed change or deviation from the original mechanical plans or specifications either initiated by the ACU contractor, the end-user or due to actual site condition, must be submitted to LEP-PMED in the form of shop drawing for approval prior to implementation;

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g. The winning ACU contractor should coordinate his works dosely with the works of other traces concerned:

h. Installation of works shall be done in neat workmanship and like manners. All improperly set works, rough finishes or other works not in accordance with the approved plans and specifications as determined by the LBP-PMED engineer or technical representatives shall be removed and replaced within seven (7) calendar days by the ACU contractor at his extra cost;

i. No existing/old materials shall be re-used; e.g., circuit breakers, electrical and mechanical controls, materials and components, refrigerant pipes, fittings, insulations, etc., unless otherwise specified in the scope of works or technical

specifications;

j. The ACU contractor shall provide all the necessary components et accessories, e.g., brackets, pedestals, clamps, fasteners, air deflectors, etc., to ensure the safe, normal and efficient operation of the installed ACUs;

k. The ACU contractor shall properly account and turn-over all dismantied/replaced

materials to the branch head or its authorized representative/s;

The ACU contractor shall exercise extreme caution and be responsible in the delivery, safe hauling/transfer of supplies, tools, equipment and/or chemicals to prevent dantage to bank properties and employees. The corresponding cost to repair or replace the bank equipment, facilities or including part and components damaged or lost by the ACU contractor or its workers during the course of the project shall be deductible/chargeable to the ACU contractor;

m. The ACU contractor shall be liable for any harm, damage or injury that may be sustained or suffered by its own crew/workers while in the performance of their

duties Acid under this project;

o. The ACU contractor shall be held directly responsible for any injury to person and/or damage to bank's property arising from the act, whether partial, contributory, or due entirely to the fault, negligence and/or distancesty of the contractor's personnel in the course of their duties;

The ACU contractor shall maintain cleanliness of all workplace at all times. They

shall clean the affected areas immediately after each workday;

of the ACU contractor is required to submit the names of its worker/s who will conduct or inspect the installation. As maybe required, identification cards shall be presented;

The ACU contractor or its foreman/engineer shall coordinate with the Branch Head or its authorized representative to discuss the necessary preparations and

work activities prior to implementation of this profest.

 The ACU contractor shall strictly observe the Bank's existing rules and regulations and shall be subject to the latter's standard security policies and procedures while inside its premises;

Payment of construction bond (If applicable) shall be charged on the account of

the ACLI contractor:

C. Should the ACU contractor falls to provide the required warranty servicing within the warranty period per submitted schedule of activities, the ACU contractor agrees, without invalidating the provisions of the warranty that the Bank may opt to contract the services of another ACU contractor/installer for the servicing of the equipment and components. The corresponding cost that will be incurred for the servicing shall be deducted from the ACU contractor's retention giorsey;

ii. Included in the bids or tender and warranty are the cost of consumables, basic replacement of parts, servicing and other incidental expenses of the ACU contractor or its authorized representatives, such as traveling expenses, lodging,

food, etc.

http://www.isp

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II. Qualification and Documentary Requirements:

A.D. contractor must be in the selected documents to prove that site offered products must be in the Philippine market for a site type of ten (10) years and must be comparable to site type of describing the product of form of fiction (Spit type, Variable Regrigarent Rov, etc.) 2. The ACU contractor shall provide at List of at least five different (5) is settlement format of Lundbrank (Annex C) contractor (with maintain) of describing effects (e.g. fast foods, accordingly with addresses, comparents and being effected by the prospect ACU contractor (with maintain) of describing begantment (Performance to the breadth of the statistics). 3. The ACU contractor soust have highly trained technicians who are its regular amployees. 4. The quoted brand stust have 24.7* Casemer Contact Contractor must be an authorized distribution of the distribution of the offered product. 5. The ACU contractor must be an authorized distribution of the distribution of the offered product. 6. The offered product must have brooklasse or any either official of the safety of the product statistics of the official product may their official occurred by authorization or Back-to-Certification is product and/or other products and the offered product. 5. The offered product must have brooklasse or any either official occurred to the official occurred occurred occurred to the official occurred occurred occurred to the official occurred oc		Oualification Requirement	Documentary Regulament
2. The ACU contractor shall provide Satisfactory Service to its institutional dients (e.g. fast foods, Bi obstiners using the standard format of Landbank (Annex C) begins government offices) with addresses, can persons and telephone numbers indicated Certificate of Satisfactory Performance using effect by the prospet ACU contractor (with minimum of distribution). For current, and past suppliers LANDBANK, Certificate of Satisfactory Performance using the brand being effected by the prospet ACU contractor (with minimum of distribution). The Head Project Management Engineering Department (PMED) not east than 30 calendar days prior to be deadling softwards on the first responsibility brained technicians who are its regular employees. 3. The ACU contractor must have highly brained technicians who are its regular employees. 4. The quoted brand must have 24/7 (assumer Contact Center) 5. The ACU contractor must be an authorized distributor of the province of the project site. 4. The quoted brand must have 24/7 (assumer Contact Center) 5. The ACU contractor must be an authorized distributor of the province of the project site. 6. The offered product must have brocking or any other official documents 7. The brand model and specifications of the offered product shall be verifiable from the website of the minimum of the offered product shall be verifiable from the website of the minimum of the offered product shall be verifiable from the website of the minimum of the offered product shall be verifiable from the website of the minimum of the offered product shall be verifiable from the website of the minimum of the offered product. 5. The brand model and specifications of the offered product of the offered product. 6. The offered product shall be verifiable from the website of the minimum of the offered product. 7. The brand model and specification is of the offered product.		I. The quoted brand of prospective ACU contractor must be in the Phillippine market for a minimum of ten (10) years and must be comparable to the type of Airconditioning Unit being procured (Split type, Variable Reinlgerant).	Copy of purchase orders, confrects or other related documents to prove that the offered brand of ACU has been in the Philippine market for at least ten (10) years prior to
LANDBANK, Certificate of Satisfact Performance and No Delayed Projects ist by the Head, Project hanagement. Engineering Department (PMEQ) not earn 30 calendar days prior to the deadling submission of bid. 3. The ACU contractor goust have highly trained technicians who are its regular employees. List of at least 3 highly trained technic (regular employees) with their respective and National Certificate of Employees and National Certificate of Employees and National Certificate of Employees. 4. The quoted brand must have 24/7 list of at least two (2) pervice Centers with the province of the project size. 5. The ACU contractor must be an authorized distributor of the authorized distributor of the authorized distributor of the conficulation to prove that the bidder is authorized seller/ distributor of the offered product. 6. The offered product must have brochures or any other official documents. 7. The brand model and specifications of the offered product. 7. The brand model and specifications of the offered product shall be verifiable from the website of the manufacturer showing specifications of the offered product. 8. The offered product shall be verifiable from the website of the manufacturer showing the were applied to the product shall be found owner's website showing the were affected product. 8. The offered product shall be offered product. 8. The offered product shall be offered product.		Z. The ACU contractor shall provide Satisfactory Service to its customers using the standard	institutional dients (e.g. fast 1000s, BPUs, hospitals, funeral parlor, banks and government offices) with addresses, contact persons and telephone numbers including Certificate of Satisfactory Performance using the brand being offered by the prospective ACU contractor (with minimum of 4 units
highly trained technicians who are its regular employees. Curriculum Vitae, Certificate of Engloys and National Certificate II (NC II) Refrigeration and Air-conditioning Services and National Certificate II (NC II) Refrigeration and Air-conditioning Services and National Certificate II (NC II) Refrigeration and Air-conditioning Service Quarters with province of the project site. 5. The ACU contractor must be an authorized distributor of the offered product. 5. The ACU contractor must be an authorized distributor of the offered product. 6. The offered product must have brochure at any other supporting documents and/or other supporting documents. 6. The offered product must have brochure at any other official documents and documents. 7. The brand model and specifications of the offered product 9 specifications of the offered product 9 specifications of the homepage of manufacturer showing specifications of the offered product 9 specifications of the Homepage of manufacturer website of the vertifiable from the website of the (web address). 8 The offered product or its Bureau of Product Standards			b. For current and past suppliers of LANDBANK. Certificase of Satisfactory Performance and No Delayed Projects issued by the Head, Project Management and Engineering Department (PMED) not earlier than 30 calendar days prior to the deadline of submission of bid.
4. The quoted brand must have 24/7 List of at least two (2) Service Centers with a province of the protect site. 5. The ACU contractor must be an authorized distributor of the offered product. 6. The offered product must have brochure are any other official documents. 6. The offered product must have brochure are any other official documents specifications of the offered product. 7. The brand model and specifications of the Homepage of manufacturer of the offered product shall be verifiable from the website of the (web address). 8. The offered product for its Sureau of Product Standards	president and the second secon	highly trained technicians who are	(regular employees) with their respective Curriculum Vitae, Certificate of Employment and National Certificate II (NC II) for Refrigeration and Air-conditioning Servicing
6. The offered product must have brochure or any other official documents conting from the manufacturer showing specifications of the offered product. 7. The brand model and specifications Print-cut of the Homepage of manufacturer of the offered product shall be product shall be verifiable from the website of the (web address). 3. The offered product for its durage of Product Standards		Customer Contact Center 5. The ACU contractor must be an authorized distributor of the offered product.	List of at least two (2) Service Centers within the province of the project site. Manufacturer's Authorization or Back-to-Back Certification to prove that the bidder is an authorized seller/ distributor of the offered product and/or other supporting documents
7. The brand model and specifications Print-cut of the Homepage of manufacts of the offered product shall be /brand owner's website showing the verifiable from the website of the (web address). **The offered oroduct of its dureau of Product Standards		trochures or any other official documents	Brochure or any other official documents conting from the manufacturer showing the specifications of the offered product
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manufacturer must be authorized Underwriters Laboratories (UL), Euro	Act of the second secon	8. The offered product for its manufacturer must be authorized and certified by the	(Underwriters Laboratories (UL), curapean (Conformity (CE) or ISO certifications,

Page 3 of 5

ACU TOR: Rev. January 28, 2020

III. Billing Requirements

Downers.	Desciption	Due Date of Submission
1. Start Up Data Sheet (Ansex D)	Duly accomplished form showing the electrical and mechanical parameters of the air-conditioning unit/s	Upon Completion
2. Seven (7) sets of As-built plans and Bill of Materials (signed and sealed by PME)	Complete Mechanical As-built plans and Bill of Materials of the installed air-conditioning units	Upon Completion
3. Schedule of Maintenarke/Monitoring Activities	The AGU contractor shall provide the standard warranty servicing for all installed equipment and its components (checking and general cleaning of the unit at least three times within the warranty period, every four (4) months after the unit/s has been installed) or earlier as the need arises. The schedule of said activities and the names of authorized representatives shall be submitted to the Branch Head or its authorized representative prior to servicing	Upon Completion
4. Warranty Cartificate with inclusive trates	One (1) year warranty for the unit and five (5) years warranty for compressor against factory/manufacturing defects on equipment, components each parts supplied and against faulty workmanship to commence upon receipt of final turn-over and acceptance documents. All equipment, parts and components found defective during and within the warranty period shall be immediately replaced without additional cost to the Bank	Upon Completion
5. Guarantee Certificate	Transferable than the searce parts and	Upon Completion
6. Manuals	Operation and Preventive Maintenance Manual	Upon Completion
7 Police	Pictures showing angles on the left, front and right	Upon Completion
8. Certificate of Trailing	Certificate that the contractor conducted familiarization seminar/training to orient the end-user on the basic concept, functions and operation of the equipment installed. Said certificate must be duly noted by the end-user or its authorized representative.	Upon Gempletica

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ACU TOTH Rev. Schwary 28, 2020

IV. Payment Texns:

- Request for payment for every completed project/Installation shall be entertained after the final turn-over and acceptance of the project and upon submission of complete billing documents required by the Procurement Department;
- 2. Mannar of Payment shall be based on the following:

Celiverables	Decuments to be Submitted Percentage of Payment
. Upon 100% completion	Documents as required in
and acceptance of the	itemali. Billing Requirements 97%
LOECT	
Sall a substitution and and a series at 1 to 1	Service Reports that the 3%
	warranty servicing
the project TOTAL	100%

Prepared by

POEL EUGENE C. ELAZEGUT Engineer, TSU-PMED Reviewed by:

RICHARD MICHAEL B. DIMAPILIS SPDS/Tepm Leader, North-NCROG

Approved by:

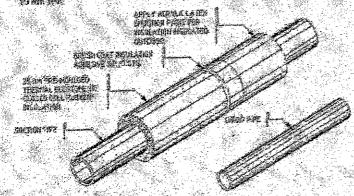
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Page 5 of 5

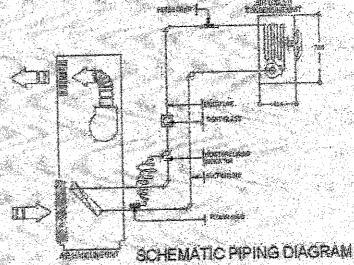
ACUTOR: Rev. January 28, 2020

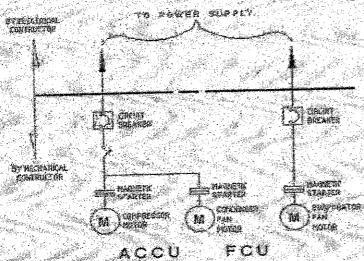
ANNEX B

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REFRIGERANT PIPE INSULATION DETAIL





ELECTRICAL RISER DIAGRAM

ACLITORI Resi, Judiciny 28, 2020

ANNEX C

CERTIFICATE OF SATISFACTORY PERFORMANCE

This is to certify that supplied our company/agen to specifications, performan after sales service, we give t	cy with <u>(Ison</u> ce, supplier's t	CiGnodsi Bas	o on our evalu	iculat un co
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Below are the list of by <u>(Prospective Bidder/S</u>	Purchase Ord Supplier Comp	er (POS)/ Contro yany Name), to	icts_aupplied.a wit:	and Installed
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ACUTOR: Rev. January 22, 2020

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

LANDBANK OF THE PHILIPPINES

ANNEX D

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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ACU TOR: Rev. January 28, 2020

A. Name and Description of the Project:

One (1) lot – Supply, Delivery, Installation, Testing and Commissioning of 30.0 TR Water-Cooled Packaged Air-conditioning Unit, complete with standard accessories per manufacturer's standards for LANDBANK Makati Accounting Center including dismantling and hauling out of existing unit.

B. Objective of the Project:

- 1. To properly ventilate the Office area.
- 2. To maintain the corporate image of the Bank.
- 3. To provide a conducive working area.

C. Scope of the Project and Delivery Time/Completion:

rsi .	A Life time of manager and aguigment/tools at 5th Floor
Supply, delivery and installation	 Mobilization of manpower and equipment/tools at 5th Floor World Center Condominium, Salcedo Village, Makati City One (1) unit - 30.0 TR Water Cooled Packaged Air Conditioning Unit, floor standing duct connection type, complete with high efficiency fully enclosed scroll type compressor, R-401A refrigerant, coiled double condenser, multipath vortex finned tube evaporator fan motor, safety control devices and other standard accessories, 440 Volts, 3 Phase, 60 Hertz power supply including securing of Mechanical Permit and other permits and clearances as may be required by the Office of the Building Official. Installation, testing and commissioning Dismantling and hauling out of existing unit to LANDBANK Antipolo Warehouse Cleaning-up works and demobilization
	Technical Specifications of 30.0TR Water Cooled Packaged Air Conditioning Unit
2. Installation Schedule	Monday to Sunday or per coordination with end-user/s
3. Installation Period	One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed (NTP) and Advice from Project Management and Engineering Department (PMED) as to availability of project
40'	site
4. I. General Notes II. Qualification and Documentary Requirements III. Billing Requirements	See Annex A
IV. Payment Terms 5. Certificate of Satisfactory Performance Template	See Annex B
6. Start-up Data Sheet	See Annex C

Prepared by:

CHRISTOPHER R. ODAD

Engineer, VBG

Reviewed by:

RICHARD MICHAEL B. DIMAPILIS Team Leader, NCRBG North

Approved by

EMRICO DJ. SAMANIEGO Head, PMED

Revised Annex E-21
Page 1 of 1

ACU TOR: Rev. July 16, 2020

30 TR Water Cooled Packaged Air-conditioning Unit

Features	LBP SPECIFICATIONS		
Fan Coil Application Type			
Cooling Capacity, minimum	360,000 Btu/Hr <i>or</i> 379,820 kJ/Hr <i>or</i> 105.5 kW (whichever of the three)		
Energy Efficiency Ratio (EER), minimum	9.19 Btu/W-hr <i>or</i> 9.7 kJ/W-hr <i>or</i> 2.69 W/W-hr (Whichever of the three)		
Evaporator Fan Air-Flow, minimum	15,600 CMH or 260 CMM or 9181 CFM (Whichever of the three)		

Features	Unit	LPB SPECIFICATIONS
Power Supply	V-Hz	440-460, 60
Phase	Ø	Three
System Power Input, max	kW	28
Compressor Type		High Efficiency Fully Enclosed Scroll type
Refrigerant		R-410a/R32
Condenser		Water-cooled
Evaporator Fan		Bilateral Intake Multi-blade Fan
Lubrication		differential-pressure lubrication system
take the first transfer of the first transfe		low noise and low vibration

I. General Notes

1. General Scope of works

- a. Dismantling of air-handling units and related piping, ducting and electrical accessories and hauling-out of the same at LBP Antipolo Warehouse to facilitate the installation of the brand new water-cooled package air-conditioners.
- b. Supply, delivery, installation, start-up and commissioning of the air-conditioning equipment and its accessories and furnishing of all required consumables and other accessories not provided but necessary for proper operation of the system.
- c. The ACU contractor shall provide all the necessary components or accessories, e.g., brackets, pedestals, clamps, fasteners, air deflectors, etc., to ensure the safe, normal and efficient operation of the installed PACU;
- d. ACU contractor shall secure Work Authorization Permit from Building Administrator of the building prior start of the project.
- e. Supply of Black Iron (BI) pipes and fittings, water valves, instrumentation, support and hangers for the modification of the supply of cooling water supply and its return.
 - h.1. All piping interconnections that will require water draining of the system or portions thereof shall be well coordinated with Project Management and Engineering Department (PMED) and Property Management/ Engineering Department/Administrator of the building shall not be done without any interruptions to the building's operations during office hours.
 - h.2. ACU contractor shall conduct standard manufacturer's test (e.g. leak test, load test, etc.) for the installed PACU and submit Piping As-built plan signed and sealed by a duly licensed Professional Mechanical Engineer.
- f. Air duct connection between the new water-cooled packaged air-conditioner and existing ducting including the supply and installation of new materials such as G.I. plain sheets, polyethylene insulation with aluminum backing, dampers, support and hangers.
 - i.1. ACU Contractor shall supply and install new air ducting to connect the new 30TR water-cooled packaged air-conditioning unit (PACU) and the existing supply air ducts.
 - i.2. ACU Contractor shall leak test all completed works and submit ducting asbuilt plan signed by a duly licensed Professional Mechanical Engineer.
- g. Electrical and motor control system requirement of the new air-conditioning equipment including the supply and installation of new materials such as local control panels, circuit breakers and motor starters, conduits and fittings, wires, support and hangers.
 - I.1. ACU Contractor shall supply and layout Intermediate Metallic Conduit (IMC) and Thermoplastic, High Heat resistant, Nylon Jacketed (THHN) electrical wires from new Moulded Case Circuit Breaker (MCCB) to new PACU.

- I.2. ACU Contractor shall test all the completed works and submit an Electrical As-built plan signed and sealed by a duly licensed Professional Electrical Engineer.
- h. Condensate drain pipe for the PACU including the supply and installation of new materials such as PVC pipe, at least 3/8" thick rubber insulation and p-trap as per recommendation of the air-conditioning unit manufacturer.
- i. If any has been omitted in any item of work or materials which are necessary for the completion of work as outlined herein, then such item must be and hereby included in the division of work.
- j. The ACU contractor/Supplier shall prepare all plans, application permits, and shall complete all test forms requires by all rules and regulations of all government authorities having jurisdiction over the project. The required documents shall be completed by qualified personnel, Professional Engineers in particular.

2. Other Requirements:

- a. Prospective ACU contractors are encouraged to inspect, verify and assess the existing condition, location and details of the project;
- b. All equipment, units and parts/components to be supplied shall be brand new, clean and approved products of reputable manufacturers;
- c. All works shall conform to the provisions (latest edition) of the Philippine Mechanical, Electrical and Building Codes, the Clean Air Act, Environmental Laws and other applicable laws and regulations;
- d. In line with the Bank's Environmental Management System (EMS) program and being an ISO 14001 certified institution, the winning ACU contractor is required to use appropriate equipment, hand tools and personal protective gears and equipment (gloves, rubber boots, masks, etc.) during the installation, repair or maintenance activities;
- e. All equipment shall be installed in approximate location as shown in the mechanical plans;
- f. Any proposed change or deviation from the original mechanical plans or specifications either initiated by the ACU contractor, the end-user or due to actual site condition, must be submitted to LBP-PMED in the form of shop drawing for approval prior to implementation;
- g. The winning ACU contractor should coordinate his works closely with the works of other trades concerned;
- h. Installation of works shall be done in neat workmanship and like manners. All improperly set works, rough finishes or other works not in accordance with the approved plans and specifications as determined by the LBP-PMED engineer or technical representatives shall be removed and replaced within seven (7) calendar days by the ACU contractor at no extra cost;
- No existing/old materials shall be re-used; e.g., circuit breakers, electrical and mechanical controls, materials and components, refrigerant pipes, fittings, insulations, etc., unless otherwise specified in the scope of works or technical specifications;
- j. All dismantled materials shall be carefully stocked in a designated place inside the Bank's premises for its final disposal.
- k. The ACU contractor shall exercise extreme caution and be responsible in the delivery, safe hauling/transfer of supplies, tools, equipment and/or chemicals to prevent damage to bank properties and employees. The corresponding cost to

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

repair or replace the bank equipment, facilities or including part and components damaged or lost by the ACU contractor or its workers during the course of the project shall be deductible/chargeable to the ACU contractor;

I. The ACU contractor shall be liable for any harm, damage or injury that may be sustained or suffered by its own crew/workers while in the performance of their

duties/job under this project;

m. The ACU contractor shall be held directly responsible for any injury to person and/or damage to bank's property arising from the act, whether partial, contributory, or due entirely to the fault, negligence and/or dishonesty of the contractor's personnel in the course of their duties;

n. The ACU contractor shall maintain cleanliness of all workplace at all times. They

shall clean the affected areas immediately after each workday;

 The ACU contractor is required to submit the names of its worker/s who will conduct or inspect the installation. As maybe required, identification cards shall be presented;

p. The ACU contractor or its foreman/engineer shall coordinate with the Branch Head or its authorized representative to discuss the necessary preparations and

work activities prior to implementation of this project;

q. The ACU contractor shall strictly observe the Bank's existing rules and regulations and shall be subject to the latter's standard security policies and procedures while inside its premises;

. Payment of construction bond (if applicable) shall be charged on the account of

the ACU contractor;

s. Should the ACU contractor fails to provide the required warranty servicing within the warranty period per submitted schedule of activities, the ACU contractor agrees, without invalidating the provisions of the warranty that the Bank may opt to contract the services of another ACU contractor/installer for the servicing of the equipment and components. The corresponding cost that will be incurred for the servicing shall be deducted from the ACU contractor's retention money;

t. Included in the bids or tender and warranty are the cost of consumables, basic replacement of parts, servicing and other incidental expenses of the ACU contractor or its authorized representatives, such as traveling expenses, lodging,

food, etc.

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ACU TOR: Rev. July 16, 2020

II. Qualification and Documentary Requirements:

Qualification Requirement	Documentary Requirement
1. The quoted brand of prospective ACU contractor must be in the Philippine market for a minimum of Five (5) years and must be comparable to the type of Airconditioning Unit being procured (Split type, Variable Refrigerant Flow, etc.)	Copy of purchase orders, contracts or other related documents to prove that the offered brand of ACU has been in the Philippine market for at least five (5) years prior to deadline for the submission of bids.
The ACU contractor shall provide Satisfactory Service to its customers using the standard format of Landbank (Annex C)	a. List of at least three different (3) large institutional clients (e.g. fast foods, BPOs, hospitals, funeral parlor, banks and government offices) with addresses, contact persons and telephone numbers including Certificate of Satisfactory Performance using the brand/type being offered by the prospective ACU contractor. b. For current and past suppliers of LANDBANK, Certificate of Satisfactory Performance and No Delayed Projects issued by the Head, Project Management and Engineering Department (PMED) not earlier than 30 calendar days prior to the deadline of submission of bid.
The ACU contractor must have highly trained technicians who are its regular employees.	List of at least 3 highly trained technicians (regular employees) with their respective Curriculum Vitae, Certificate of Employment and National Certificate II (NC II) for Refrigeration and Air-conditioning Servicing issued by TESDA
4. The quoted brand must have 24/7 Customer Contact Center	the province/City of the project site.
5. The ACU contractor must be an authorized distributor of the offered product.	Certification to prove that the bidder is an authorized seller/ distributor of the offered product and/or other supporting documents to satisfy the said requirements.
The offered product must have brochures or any other official documents	coming from the manufacturer showing the specifications of the offered product
 The brand model and specifications of the offered product shall be verifiable from the website of the manufacturer. 	/brand owner's website showing the URL (web address).
8. The offered product or its manufacturer must be authorized and certified by the approving/governing body.	Underwriters Laboratories (UL), European

III. Billing Requirements

		Due Date
Document	Description	of Submission
	Duly accomplished form showing the electrical	Upon
Start Up Data Sheet (Annex D)	and mechanical parameters of the air- conditioning unit/s	Completion
Seven (7) sets of As-built plans and Bill of Materials (signed and sealed by PME and PEE)	Complete Mechanical and Electrical As-built plans and Bill of Materials of the installed airconditioning units	Upon Completion
3. Schedule of Maintenance/Monitoring Activities	The ACU contractor shall provide the standard warranty servicing for all installed equipment and its components (checking and general cleaning of the unit at least three times within the warranty period, every four (4) months after the unit/s has been installed) or earlier as the need arises. The schedule of said activities and the names of authorized representatives shall be submitted to the Branch Head or its authorized representative prior to servicing	Upon Completion
4. Warranty Certificate with inclusive dates	One (1) year warranty for the unit and for the compressor against factory/manufacturing defects on equipment, components and parts supplied and against faulty workmanship to commence upon receipt of final turn-over and acceptance documents. All equipment, parts and components found defective during and within the warranty period shall be immediately replaced without additional cost to the Bank	Upon Completion
5. Guarantee Certificate	Certificate that the spare parts and components including the aftersales services/supports that may be required by the bank to ensure the continuous and normal operation of the equipment shall be available in the next five (5) years from the date of commissioning	Upon Completion
6. Mechanical Permit	Permit from the locality. If not required by the local Building Official, the supplier shall submit a notarized certificate (attested by the LBP Branch head) that the said permit is not required by the Office of the Building Official (OBO). In any instance that the OBO required the Mechanical Permit within the warranty period, the supplier shall be the one to secure the same.	Upon Completion
7. Manuals	Operation and Preventive Maintenance Manual	Upon Completion
8. Pictures	Pictures showing angles on the left, front and right	Upon Completion

9. Certificate of Training	Certificate that the contractor conducted familiarization seminar/training to orient the end-user on the basic concept, functions and operation of the equipment installed. Said certificate must be duly noted by the end-user or its authorized representative.	Upon Completion
----------------------------	---	--------------------

IV. Payment Terms:

 Request for payment for every completed project/installation shall be entertained after the final turn-over and acceptance of the project and upon submission of complete billing documents required by the Procurement Department;

2. Manner of Payment shall be based on the following:

Deliverables	Documents to be Submitted	Percentage of Payment
 Upon 100% completion and acceptance of the project 	Documents as required in item III. Billing Requirements	97%
 Retention fee: After 1 year of final turnover of the project 	Service Reports that the contractor conducted the warranty servicing	3%
TOTAL		100%

Prepared by:

MELVÍN'C. ATIÉNZA

Engineer, PMED-NCRBG South

Reviewed by:

RICHARD MICHAEL B. DIMAPILIS

Team Leader, NCRBG North

Approved by:

WRICO D.J. SAMANIEGO

/HEAD, PMED

Page 6 of 6

ACU TOR: Rev. July 16, 2020

Perised Annex C-28

ANNEX B

CERTIFICATE OF SATISFACTORY PERFORMANCE

This is to certify that (Prospective Bidder/Supplier Company Name) has supplied our company/agency with (Items/Goods) . Based on our evaluation on as to specifications, performance, supplier's timely delivery, conformity to warranty and after sales service, we give a rating of:		
SATISFACTORY		
☐ POOR		
Below are the list of Purchase Ordeby (Prospective Bidder/Supplier Comp	er (POs)/ Contracts supplied and installed pany Name), to wit:	
PO Nos./Contracts	Project Site	
Issued this day of	in (location), Philippines	
Signature (Name of Authorized Representative) (Position) (Agency) (Contact No.)		

PACU TOR: Rev July 16, 2020

Penied Annex C-29

Terms of Reference for the procurement of Air-conditioning Unit (ACU)

LANDBANK OF THE PHILIPPINES

NAME OF THE BRANCH

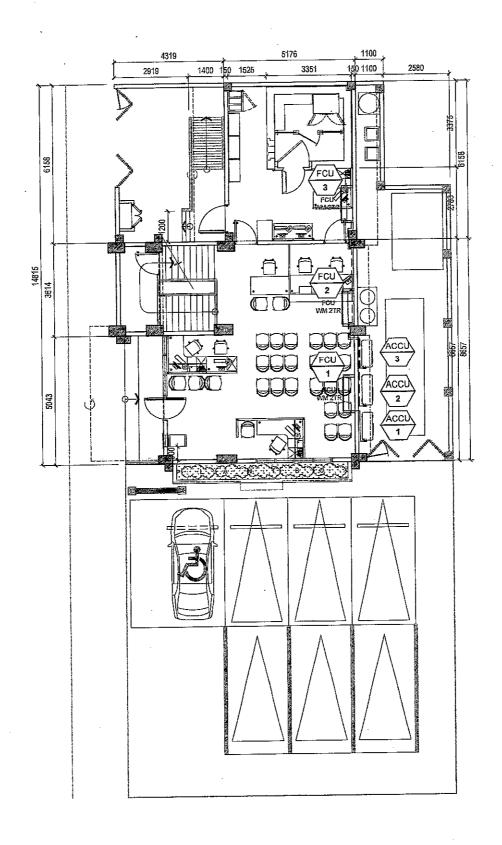
ANNEX C

P.O. NO. _____

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

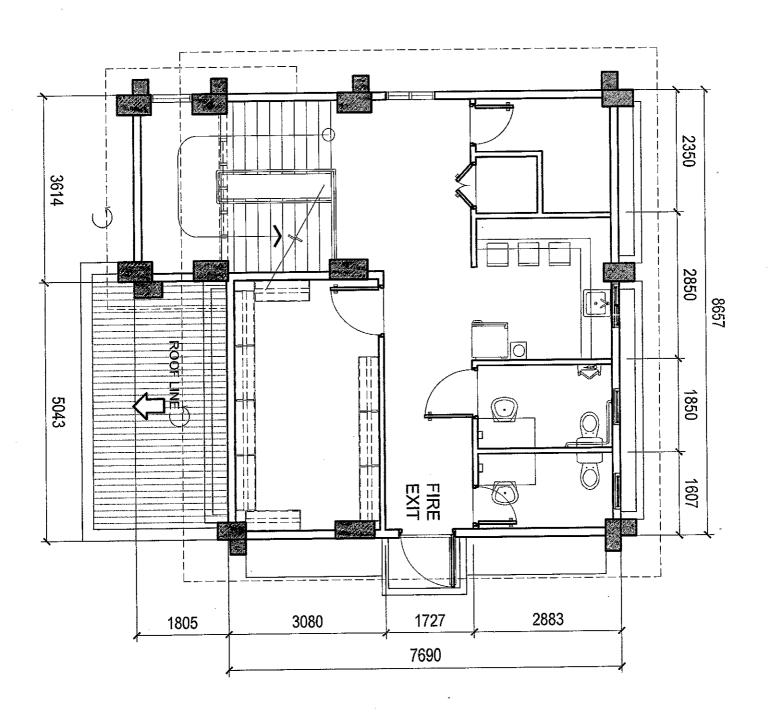
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SUPPLIER'S DATA:		,		
Address:				
		Tel.No.:		
INSTALLATION DATA:				
Technician In-charge:		Accreditation No: Start-up Date:		
Date Started:	_ Date Finished:	Start-up Date:		
PACU Model No:				
PACU Serial No:				
OPERATING DATA:				
Suction Line Temperature:		Suction Line Pressure:		
Discharge Line Temperatur	e:	Discharge Line Pressure:		
PACU Intake Air Temperat	ure:	e: PACU Discharge Air Temp.: Ambient Temperature:		
Room Temperature:	•	Ambient Temperature:		
ELECTRICAL PARAMETI	RS:			
Power Supply (Voltage).	L1-L2:	L2-L3:L3-L1:		
Overall Ampere Readings,	L1:	L2:L3:		
Current Draws, Compresso	or: ACCU Fan	Motor: FCU Fan Mo	tor:	
OTHER THOTALIATION	DATA			
OTHER INSTALLATION Refrigerant Piping:	DATA			
Suction Diameter:	Length:	Insulation Thickness:		
Discharge Diameter:	Length:	Insulation Thickness: Insulation Thickness:		
Drain Line:				
Drain Line Diameter:	Length:	Insulation Thickness:		
Electrical Lines:				
Feeder Line Conduit Diame	eter: Feeder Li	ne Wire Size: Length		
Control Line Conduit Diam Circuit Breaker:		ine Wire Size:Length	i	
Technician's Signature ove	er Printed Name:		-	

PACU TOR: Rev July 16, 2020

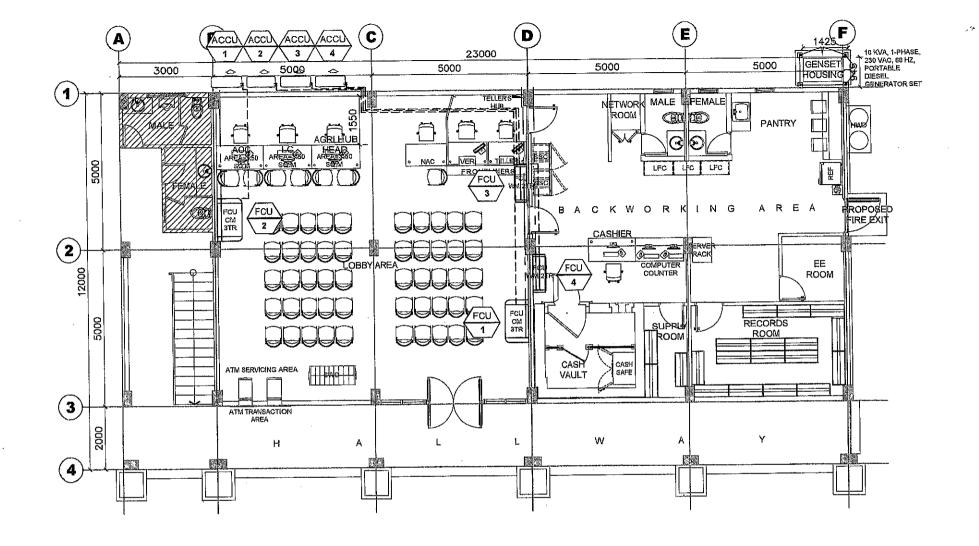


LANDBAKK SUAL AGRI HUB GF

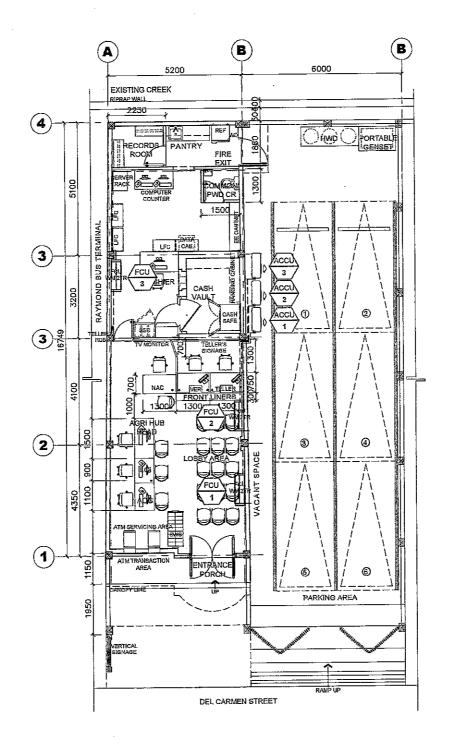
1 PROPOSED GROUND FLOOR PLAN
METERS



CANOBANK SUAL AGRI HUB 27 Revised D-1

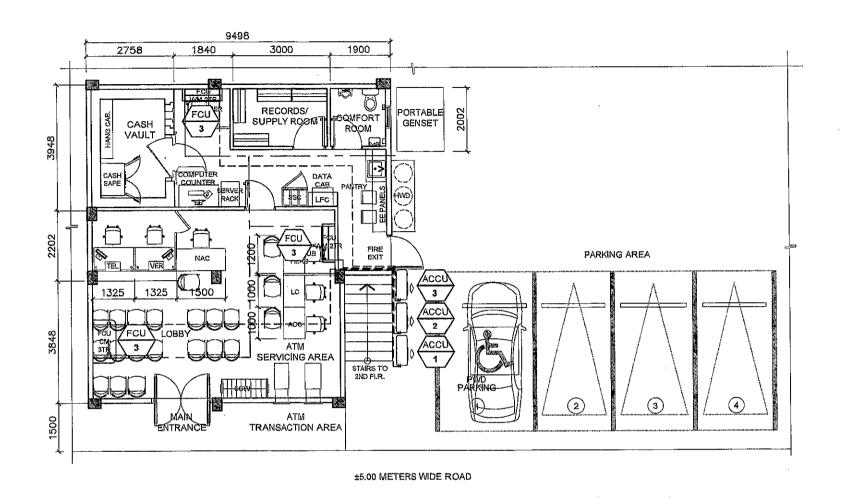


PROPOSED LANDBANK ECHAGUE (I) AGRI-HUB RENOVATION

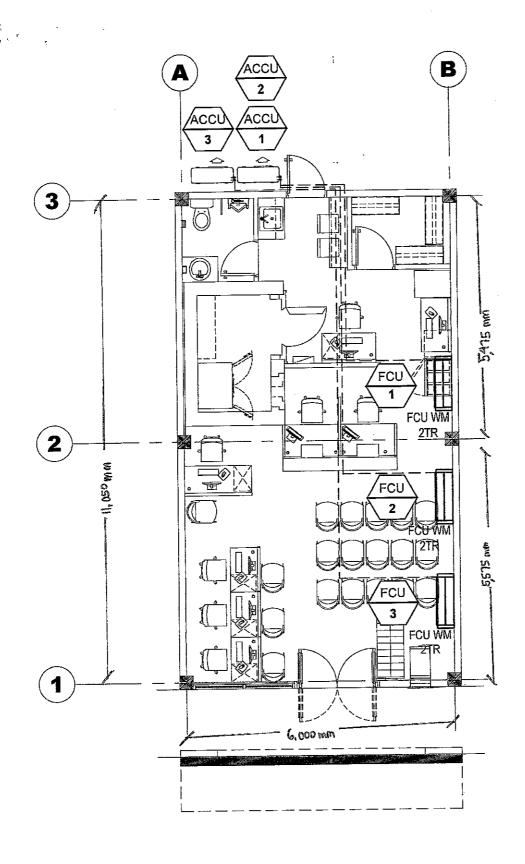


PROPOSED LANDBANK CALABANGA AGRIHUB (FIT-OUT)





PROPOSED LANDBANK STA MARIA AGRI-HUB

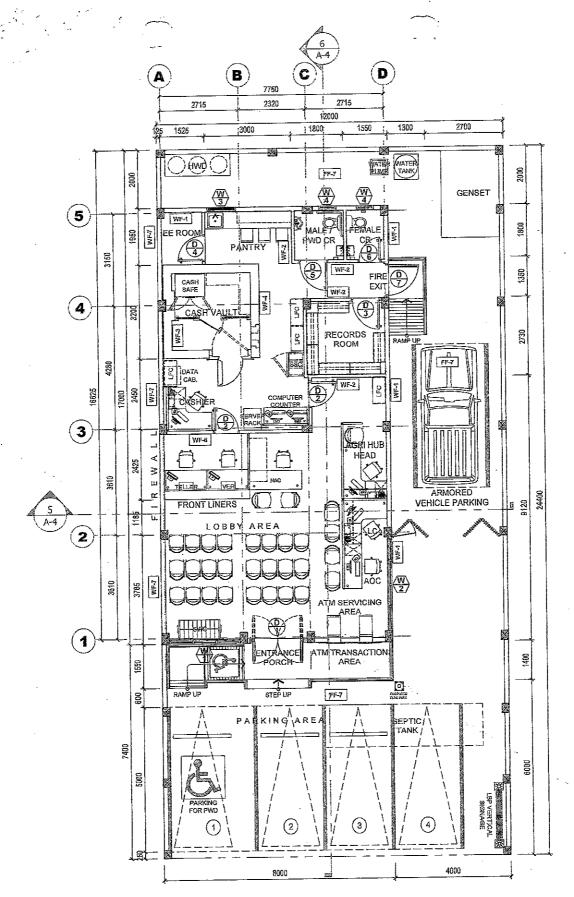


1 AIR CONDITIONING LAYOUT M-2 SCALE 1:100 METERS

Ruisad D-le

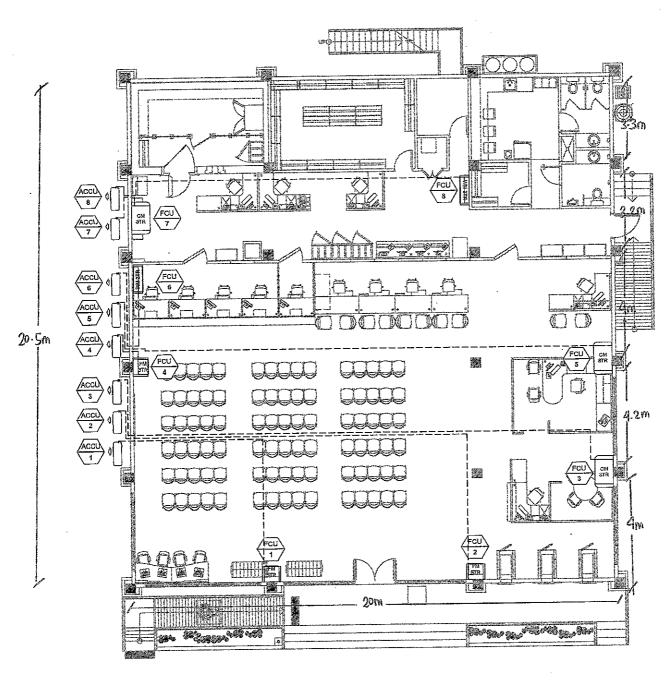
LBP BAROTAC VIETO AGRI-HUB

×



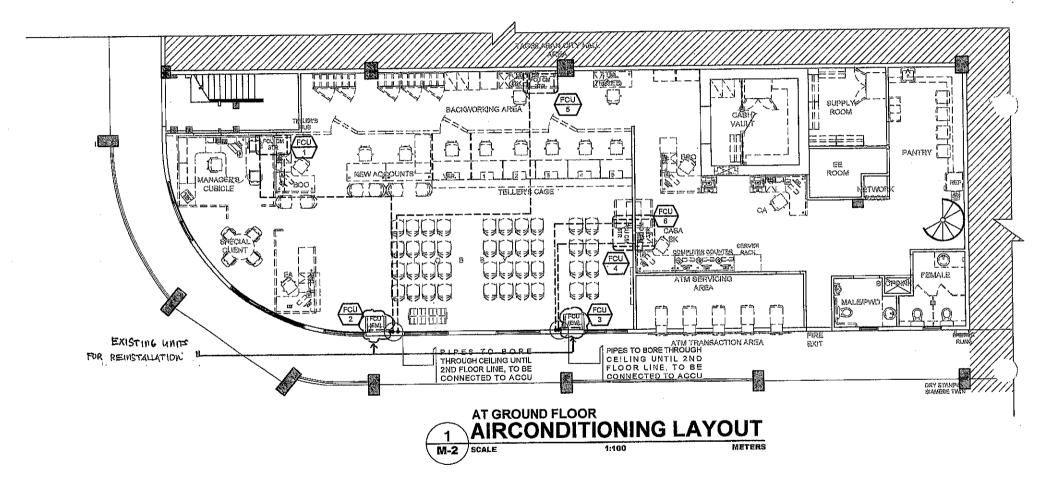


PROPOSED LANDBANK AGRI HUB



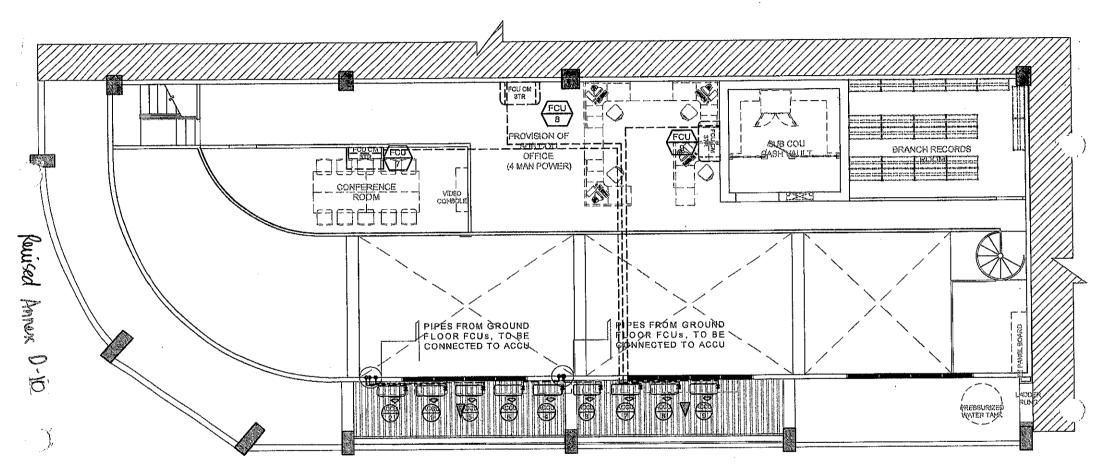


PROPOSED LANDBANK PAGADIAN BALINTAWAK (ZAMBOANGA DEL SUR) BRANCH BUILDING CONSTRUCTION (NEW UNIT)



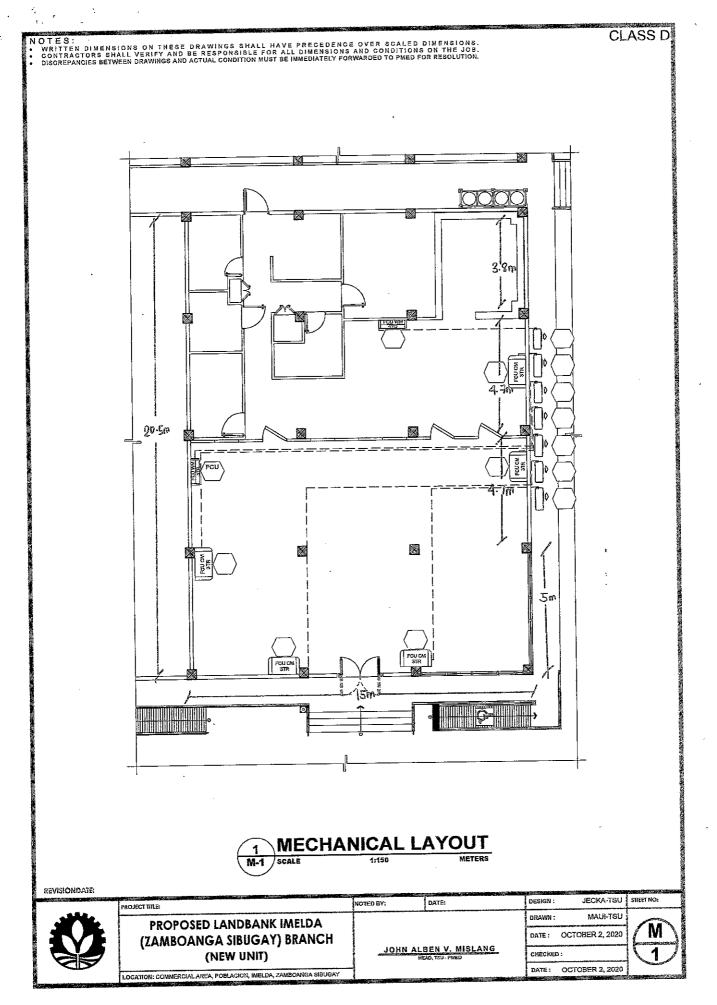
LBP TAGBILARAN

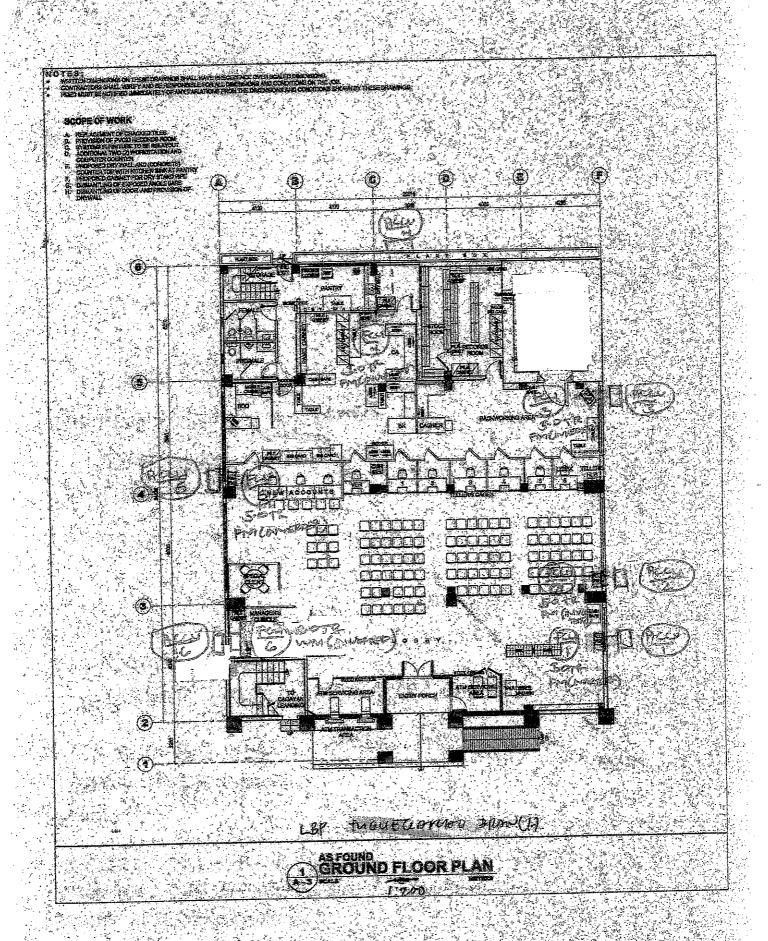
BRANCH



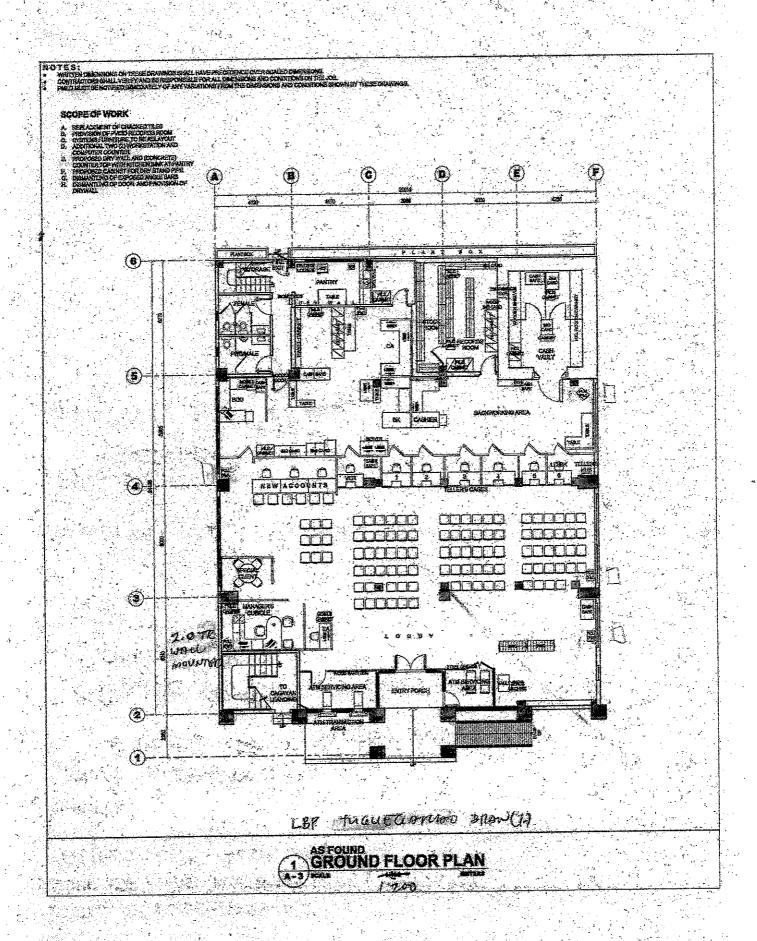
AT MEZZANINE AIRCONDITIONING LAYOUT M-2 SCALE 1:100 METERS

LBP TAGBILARAN BRANCH

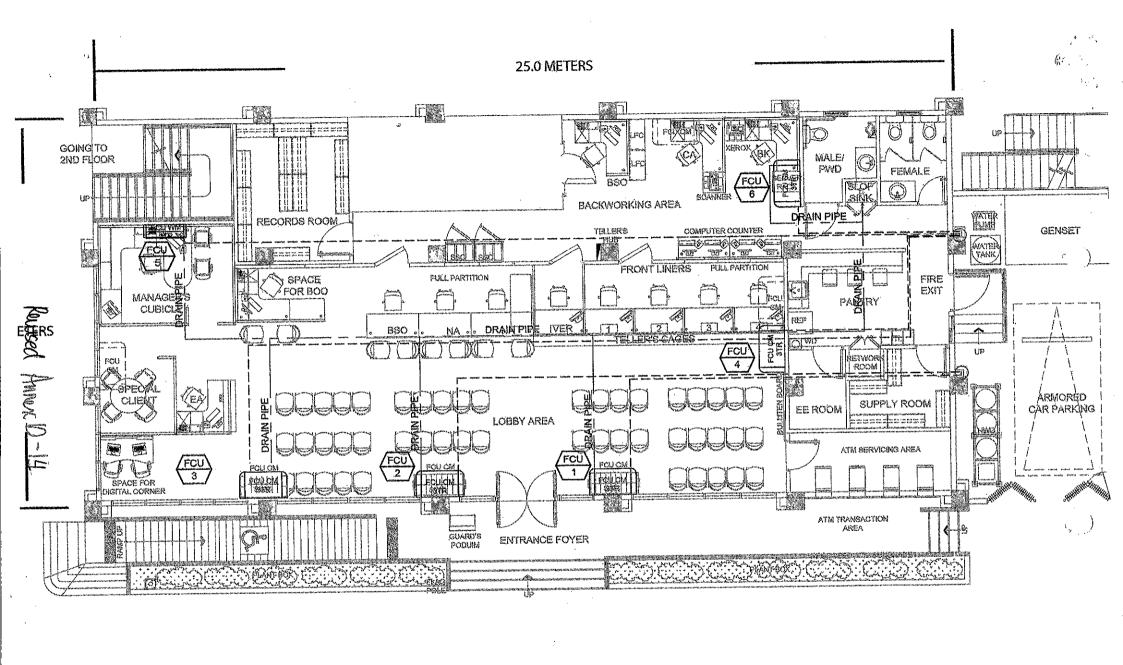




Routed Amor D-12 Days in 3

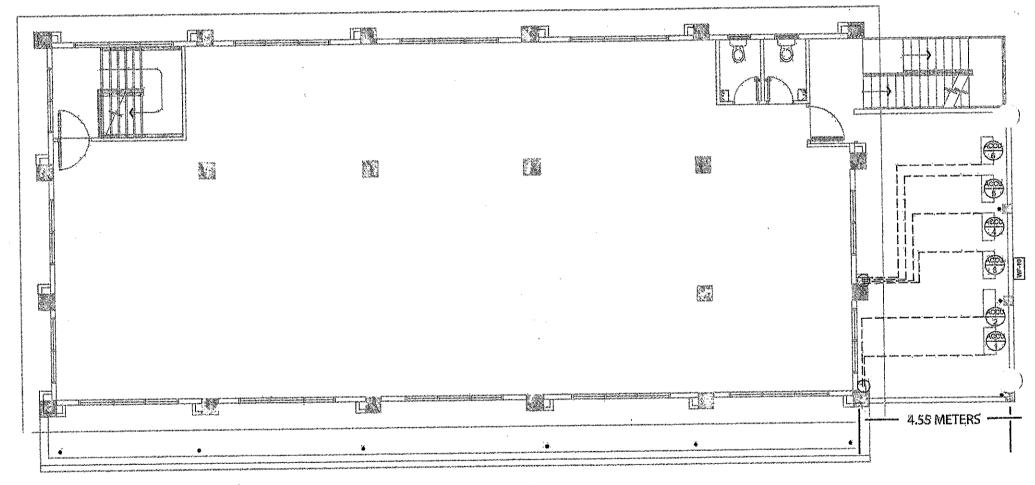


Revised Amor D-13 James D-13



LANDBANK BURAUEN BRANCH





LANDBANK BURAUEN BRANCH ACCULAYOUT SECOND FLOOR LAYOUT

Subject: Bill of Quantities

Project: Proposed Five (5) new LANDBANK Agri-Hubs

Ī	Project	Item Description	Qty.	Unit	Unit Cost	Total
L		LUZON				., ., ., ., ., ., ., ., ., ., ., ., ., .
		LOZON	T			
h	ANDBANK Sual, Pangasinan Agri-Hub Location: Sual, Pangasinan	Supply, Delivery,Installation, Testing and Commisioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type)	1	set		
		2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost	2	sets lot		
	·	Delivery Cost (*including air/land fare and lodging cost)	1	lot		
_		SUB-TOTAL			,	<u></u>
	LANDBANK Echague, Isabela Agri-Hub Localion: Echague, Isabela	Supply, Delivery,Installation, Testing and Commisioning of the following Air-Conditioning Units:		,		The state of the s
		1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost	2 2 1	set sets lot		
		Delivery Cost (*including air/land fare and lodging cost) SUB-TOTAL		lot		
				T	1	
J.	LANDBANK Calabangga, Camarines Sur Agri-Hub Location: Calabangga, Camarines Sur	Supply, Delivery, Installation, Testing and Commisioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost	1 2 1	set sets lot		
		Delivery Cost (*Including air/land fare and lodging cost) SUB-TOTAL	<u> </u>	lot		
		30B-TOTAL	 	1	T	
4	LANDBANK Sta.Maria, Ilocos Sur Agri-Hub Location: Sta. Maria, Ilocos Sur	Supply, Delivery,Installation, Testing and Commisioning of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost	1 2 1	set sets lot	5	
		Delivery Cos (*Including air/land fare and lodging cost	0	lot		
-		SUB-TOTAL				
_		VISAYAS	_		1	
ŧ	i. LANDBANK Barotac Viejo, Iloilo Agri-Hub Location: Barotac Viejo, Iloilo	Supply, Delivery, Installation, Testing and Commissioning				
	LOUBIUM, DEFORM VAJO, NOVO	of the following Air-Conditioning Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost	1 2 1		ts	
		Delivery Cos (*including air/land fare and lodging cos SUB-TOTA	st)	lo	t	
		GRAND TOTAL COS				

	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.
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Submitted by:	
	Supplier/Contractor
	Printed Name of Authorized Representative with Signature
	Date

Project: LANDBANK Pagadian Balintawak Branch

Location: Pres. L2, Blk 16, Corazon Aquino Regional Gov't Center, Brgy. Balintawak, Pagadian City

Subject: Bill of Quantities (BOQ)

Item Description	Qty.	Unit	Unit Cost	Total
Supply, Delivery,Installation, Testing and Commisioning of the following Air-Conditioning Units				
1.0 2.0 TR Wall Mounted (Inverter Type) 2.0 3.0 TR Ceiling Mounted (Inverter Type) 3.0 3.0 TR Floor Mounted (Inverter Type) 4.0 5.0 TR Floor Mounted (Inverter Type) 5.0 Installation Cost	2 3 1 2	sets sets set sets lot		
Delivery Cost	1	lot		
SUB-TOT	AL		Php	

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:	
	Supplier/Contractor
	Printed Name of Authorized Representative with Signature
	Date

Project: LANDBANK Tagbilaran Branch Renovation

Location: Bohol Provincial Capitol Complex, J.S. Torralba cor. Marapao Sts., Tagbilaran City, Bohol

Subject: Bill of Quantities (BOQ)

Item Description	Qty.	Unit	Unit Cost	Total
Supply, Delivery,Installation, Testing and Commisioning of the following Air-Conditioning Units uncluding dismantling of existing units:				
1.0 Relocation, Reinstallation and Recommissioning of two (2) units 3.0TR Floor Mounted ACU	1	lot		
New Units: 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 Installation Cost	7	sets lot		
Dismantling Cost Delivery Cost	5 1	sets		
SUB-TOTA	T -	<u> </u>	Php	

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:	
	Supplier/Contractor
	Printed Name of Authorized Representative with Signature
	Date

Revised Annex E-4

Project: LANDBANK Makati Accounting Center

Location: 5th Floor World Center Condominium Salcedo Village, Makati City

Subject: Breakdown of Materials

Item	Item Description	Qty.	Unit	Unit Cost	Total
No.	LUZON				2"11
	Supply, delivery, installation, testing and commissioning including dismantling and hauling out of existing unit				
1.0	30.0 TR Water-Cooled Packaged Air-Conditioning Unit floor standing, duct connection type with 110 kW nominal cooling capacity complete with two (2) 11 kW high efficiency fully unclosed scroll type	1	set		
2.0	compressor Installation Works and Miscellaneous (including delivery) Dismantling and Hauling out of existing unit to Antipolo Warehouse	1	lot lot		
	Tota		1	<u> </u>	

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.

Supplier/Contractor
Printed Name of Authorized Representative with Signature
Date

Ruised Annex E-5

Project: LANDBANK Imelda (Zamboanga Sibugay) Branch

Location: Commercial Complex Area, Poblacion, Imeida, Zamboanga Sibugay

Subject: Bill of Quantities (BOQ)

Item Description	Qty.	Unit	Unit Cost	Total
Supply, Delivery, Installation, Testing and Commisioning of the following Air-Conditioning Units 1.0 3.0 TR Ceiling Mounted (Inverter Type) 2.0 2.0 TR Wall Mounted (Inverter Type) 3.0 Installation Cost	5 2 1	sets sets lot		
4.0 Delivery Cost SUB-TOTA		IOI	Php	

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:	
	Supplier/Contractor
	Printed Name of Authorized Representative with Signature
	Data

found Annex E-le

ect: LANDBANK Tuguegarao Branch

ıtion: LANDBANK Bldg., Bagay Road Brgy. San Gabriel Tuguegarao City, Cagayan

ject: Breakdown of Materials

Item Description	Qty	Unit	Unit Cost	Total
LUZON Supply, delivery, installation, testing and commissioning including dismantling of existing units				a de la companya de l
5.0 TR Floor Mounted (Inverter) 0 2.0 TR Wall Mounted (Inverter) 0 Installation Cost (including feeder line of 2.0 TR Wall Mounted, Inverter) 0 Delivery Cost 0 Dismantling Cost	5 1 1 1 6	sets set lot set sets		
	Total			

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:	
	Supplier/Contractor
	Printed Name of Authorized Representative with Signature
	Date

ect: LANDBANK Burauen Branch Construction tion: Burauen Public Market, Burauen, Leyte ect: Breakdown of Materials

1 Item Description		Qty.	Unit	Unit Cost	Total
LUZON Supply, Delivery, Installation, Testing and Commisioning of Air-conditioning units					
3.0 TR CeilingMounted (Inverter) 2.0 TR Wall Mounted (Inverter) 3 Installation Cost 3 Delivery Cost		5 1 1	sets set lot set		
	Total		<u> </u>		

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:	
	Supplier/Contractor
	Printed Name of Authorized Representative with Signature
	Date