

BIDS AND AWARDS COMMITTEE

Section I. Invitation to Bid

SUPPLY OF LABOR AND MATERIALS FOR THE INSTALLATION OF SPLIT-TYPE PACKAGED AIRCONDITIONERS AT THE AMORSOLO KITCHEN, DOCUMENTS DISTRIBUTION COUNTER AND INNER ROOMS

The Philippine International Convention Center (PICC), through its 2018 Approved Budget, intends to apply the sum of **ONE MILLION THREE HUNDRED FIFTY-THREE THOUSAND TWO HUNDRED FORTY-SIX PESOS AND TWENTY-SIX CENTAVOS (P1,353,246.26), VAT Inclusive**, being the total Approved Budget for the Contract (ABC) of the aforesaid project.

The PICC now invites bids for procurement of the abovementioned requirement. Completion of the Works shall be within thirty (30) calendar days after the acceptance of the Notice to Proceed. Bidders should have completed a contract similar to the project within the last three (3) years and should have key personnel and equipment for the prosecution of the project. Bids received in excess of the ABC shall be automatically rejected at bid opening

Bidding will be conducted through open competitive bidding procedures, using non-discretionary "pass/fail" criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184), otherwise known as the "Government Procurement Reform Act." Participation in the bidding shall be restricted to Filipino citizens/sole proprietorships, cooperatives, and partnerships or organizations with at least seventy-five percent (75%) interest or outstanding capital stock belonging to citizens of the Philippines.

Interested bidders may obtain further information from the PICC-BAC and inspect the Bidding Documents at the address given below from 8:00 a.m. to 5:00 p.m. during working days.

A complete set of Bid Documents may be acquired by interested bidders from January 31, 2019 to 10:00 a.m. of February 26, 2019, at the address stated below, upon payment of the applicable fee, pursuant to the latest Guidelines issued by the GPPB, in the amount of TWO THOUSAND PESOS (P2,000.00). It may also be downloaded, free of charge, from the website of the Philippine Government Electronic Procurement System (PhilGEPs) and at the PICC website (www.picc.gov.ph), provided that participating Bidders shall pay the applicable fee for the Bidding Documents, not later than the submission of their bids.

The PICC-BAC will hold a Pre-Bid Conference on February 12, 2019 at 10:00 a.m., at the PICC BAC Conference Room, Ground Floor, Delegation Building, which shall be open to all prospective bidders. Bids must be duly received by the BAC Secretariat at the address specified below before 10:00 am. of February 26, 2019. Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.

Bid opening shall be conducted on February 26, 2019, at 10:00 a.m. at the PICC-BAC Conference Room, Ground Floor, Delegation Building, PICC. Bids will be opened in the presence of the bidders' representatives who choose to attend. Late bids shall not be accepted.

In case the Pre-bid Conference, the deadline for the submission of Bid Documents and the opening of bids fall on a non-working day, legal holiday or special non-working holiday, the activity involved shall be moved to 2:00 p.m. of the next working day.

The PICC reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

BIDS AND AWARDS COMMITTEE (BAC)
PHILIPPINE INTERNATIONAL CONVENTION CENTER
PICC Complex, 1307 Pasay City
7894758, 7894759 and 7894760
Telefax No. 7894761


MELPIN A. GONZAGA
Chairman

Section III - Bid Data Sheet

ITB Clause	
1.1	<p>The Procuring Entity is <i>PHILIPPINE INTERNATIONAL CONVENTION CENTER.</i></p> <p>The name of the Contract is <i>Supply of Labor and Materials for the Installation of Split-type Packaged Air-conditioners at the Amorsolo Kitchen, Documents Distribution Counter and Inner Rooms</i></p>
2	The Funding Source is: <i>PICC Approved Budget for CY 2018</i>
3.1	No further instructions.
5.1	<p>Eligible Bidders</p> <ol style="list-style-type: none"> 1. Must be engaged in business for the supply, installation, operation and repair of Inverter-Type, Packaged Air-conditioners and/or centralized air conditioning system for at least three years (3) years; 2. Must have at least two (2) completed projects for the supply and installation, repair and maintenance of Split-type, Inverter-Type Packaged Air-conditioners for the past three (3) years; and 3. Must have a PCAB license with size range of at least small B in Air-conditioning and Refrigeration Works.
5.2	Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.
5.4(a)	No further instructions.
5.4(b)	<p>Statement of one (1) completed contract similar to the contract to be bid, the amount of which shall be equivalent to at least fifty percent (50%) of the ABC, executed within the last three (3) years from the date of submission and receipt of bids. Attach Certificate of Final Acceptance issued by the owner or the Constructors Performance Evaluation System (CPES) Final rating showing at least a "Satisfactory" rating.</p> <p>For this purpose, a similar contract is one involving the supply and installation or repair and maintenance of Inverter-Type, Packaged Airconditioners.</p>
8.1	Subcontracting is not allowed.
9.1	The PICC-BAC will hold a pre-bid conference for this Project on February 12, 2019, 10:00 a.m. at <i>BAC Conference Room, G/F, Delegation Building.</i>

10.1	<p>The Procuring Entity's address is:</p> <p><i>Philippine International Convention Center PICC Complex, 1307 Pasay City</i></p> <p><i>For this purpose, the contact person is:</i></p> <p><i>Engr. Mario B. Macanas Asst. Director, MSD-TSD Tel.NO. 789-4789 loc. 7047</i></p>															
10.4	No further instructions.															
12.1(a)(iii)	For JV, provide a JV license issued by PCAB with size range of at least small B in Air-conditioning and Refrigeration Works.															
12.1(b)(ii.2)	<p>The minimum work experience requirements for key personnel are the following:</p> <table border="1" data-bbox="438 834 1412 1869"> <thead> <tr> <th data-bbox="438 834 763 897">Key Personnel</th> <th data-bbox="763 834 1088 897">General Experience</th> <th data-bbox="1088 834 1412 897">Relevant Experience</th> </tr> </thead> <tbody> <tr> <td data-bbox="438 897 763 1121"> Site Mechanical Engineer Must be a licensed Mechanical Engineer </td> <td data-bbox="763 897 1088 1121">With at least 5 years work experience in HVAC installation, testing & commissioning</td> <td data-bbox="1088 897 1412 1121">Must have managed/supervised a completed project involving HVAC installation, testing & commissioning</td> </tr> <tr> <td data-bbox="438 1121 763 1383"> Site Mechanical Foreman Mechanical or any Engineering Course undergraduate or Vocational Graduate of AC Technology </td> <td data-bbox="763 1121 1088 1383">With at least 5 years work experience in supervising of HVAC installation, testing & commissioning</td> <td data-bbox="1088 1121 1412 1383">Must have managed/supervised a completed project involving HVAC installation, testing & commissioning</td> </tr> <tr> <td data-bbox="438 1383 763 1607"> Site Mechanical Leadman Vocational Graduate or Undergraduate of AC Technology </td> <td data-bbox="763 1383 1088 1607">With at least 3 years work experience in supervising of HVAC installation, testing & commissioning</td> <td data-bbox="1088 1383 1412 1607">Must have managed/supervised a completed project HVAC installation, testing & commissioning</td> </tr> <tr> <td data-bbox="438 1607 763 1869"> Safety Officer </td> <td colspan="2" data-bbox="763 1607 1412 1869">Must have at least two (2) - year work experience as Safety Officer or has undergone at least forty (40) hours of Basic Occupational Safety and Health (BOSH) training by Occupational Safety and Health Authority (OSHA) and/or any DOLE-accredited Training Centers.</td> </tr> </tbody> </table>	Key Personnel	General Experience	Relevant Experience	Site Mechanical Engineer Must be a licensed Mechanical Engineer	With at least 5 years work experience in HVAC installation, testing & commissioning	Must have managed/supervised a completed project involving HVAC installation, testing & commissioning	Site Mechanical Foreman Mechanical or any Engineering Course undergraduate or Vocational Graduate of AC Technology	With at least 5 years work experience in supervising of HVAC installation, testing & commissioning	Must have managed/supervised a completed project involving HVAC installation, testing & commissioning	Site Mechanical Leadman Vocational Graduate or Undergraduate of AC Technology	With at least 3 years work experience in supervising of HVAC installation, testing & commissioning	Must have managed/supervised a completed project HVAC installation, testing & commissioning	Safety Officer	Must have at least two (2) - year work experience as Safety Officer or has undergone at least forty (40) hours of Basic Occupational Safety and Health (BOSH) training by Occupational Safety and Health Authority (OSHA) and/or any DOLE-accredited Training Centers.	
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12.1(b)(iii.3)	<p>The minimum major equipment requirements are the following:</p> <table border="1" data-bbox="435 269 1416 804"> <thead> <tr> <th data-bbox="435 269 524 343">Item No.</th> <th data-bbox="524 269 740 343">Number of units required</th> <th data-bbox="740 269 1416 343">Description of Equipment</th> </tr> </thead> <tbody> <tr> <td data-bbox="435 343 524 381">1</td> <td data-bbox="524 343 740 381">2</td> <td data-bbox="740 343 1416 381">Welding Machine</td> </tr> <tr> <td data-bbox="435 381 524 418">2</td> <td data-bbox="524 381 740 418">3</td> <td data-bbox="740 381 1416 418">Oxygen Tanks</td> </tr> <tr> <td data-bbox="435 418 524 456">3</td> <td data-bbox="524 418 740 456">3</td> <td data-bbox="740 418 1416 456">Nitrogen Tanks</td> </tr> <tr> <td data-bbox="435 456 524 530">4</td> <td data-bbox="524 456 740 530">3</td> <td data-bbox="740 456 1416 530">Oxy-acetylene cutting/welding outfits (complete set)</td> </tr> <tr> <td data-bbox="435 530 524 568">5</td> <td data-bbox="524 530 740 568">3</td> <td data-bbox="740 530 1416 568">Acetylene tanks</td> </tr> <tr> <td data-bbox="435 568 524 605">6</td> <td data-bbox="524 568 740 605">5</td> <td data-bbox="740 568 1416 605">Mapp Gas Torch</td> </tr> <tr> <td data-bbox="435 605 524 642">7</td> <td data-bbox="524 605 740 642">2</td> <td data-bbox="740 605 1416 642">Air Vacuum Pump</td> </tr> <tr> <td data-bbox="435 642 524 680">8</td> <td data-bbox="524 642 740 680">2</td> <td data-bbox="740 642 1416 680">Refrigerant Testing/Charging Gauge Manifolds</td> </tr> <tr> <td data-bbox="435 680 524 717">9</td> <td data-bbox="524 680 740 717">2</td> <td data-bbox="740 680 1416 717">Refrigerant Weighing Scale</td> </tr> <tr> <td data-bbox="435 717 524 755">10</td> <td data-bbox="524 717 740 755">3</td> <td data-bbox="740 717 1416 755">Drilling Machine (Power Tools)</td> </tr> <tr> <td data-bbox="435 755 524 804">11</td> <td data-bbox="524 755 740 804">3</td> <td data-bbox="740 755 1416 804">Grinding Machine (Power Tools)</td> </tr> </tbody> </table> <p data-bbox="435 842 1416 949">Such equipment shall be made available for verification and inspection at the place specified by the Lowest Complying Bidder during the post-qualification period.</p>	Item No.	Number of units required	Description of Equipment	1	2	Welding Machine	2	3	Oxygen Tanks	3	3	Nitrogen Tanks	4	3	Oxy-acetylene cutting/welding outfits (complete set)	5	3	Acetylene tanks	6	5	Mapp Gas Torch	7	2	Air Vacuum Pump	8	2	Refrigerant Testing/Charging Gauge Manifolds	9	2	Refrigerant Weighing Scale	10	3	Drilling Machine (Power Tools)	11	3	Grinding Machine (Power Tools)
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13.1	No additional Requirements																																				
13.2(b)	The ABC is ONE MILLION THREE HUNDRED FIFTY-THREE THOUSAND TWO HUNDRED FORTY-SIX PESOS AND TWENTY-SIX CENTAVOS (PhP1,353,246.26). Any bid with a financial component exceeding this amount shall not be accepted.																																				
14.2	No further instructions.																																				
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16.1	The bid prices shall be quoted in Philippine Pesos.																																				
16.3	No further instructions.																																				
17.1	Bids will be valid until One Hundred Twenty (120) calendar days from the date of opening of bids.																																				
18.1	<p>The bid security shall be in the form of a Bid Securing Declaration or any of the following forms and amounts:</p> <ol style="list-style-type: none"> <li data-bbox="435 1721 1416 1834">1. The amount of not less than PhP27,064.92, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; <li data-bbox="435 1859 1416 1946">2. The amount of not less than PhP67,662.31, if bid security is in Surety Bond. 																																				
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20.3	Each Bidder shall submit One (1) original and two (2) copies of the first and second components of its bid.																																				

21	<p>The address for submission of bids:</p> <p style="text-align: center;">PHILIPPINE INTERNATIONAL CONVENTION CENTER PICC-BAC SECRETARIAT OFFICE Ground Floor, Delegation Building</p> <p>The deadline for submission of bids is <i>February 26, 2019 at 10:00 a.m.</i></p>
24.1	<p>The place of bid opening:</p> <p style="text-align: center;">PICC-BAC CONFERENCE ROOM Ground Floor, Delegation Building</p> <p>The date and time of bid opening is <i>February 26, 2019 at 10:00 a.m.</i></p>
24.2	No further instructions.
24.3	No further instructions.
27.3	<p>Partial bid is not allowed. The project is packaged in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p>
27.4	No further instructions.
28.2	<p>Post-Qualification Documents:</p> <p>Within a non-extendible period of five (5) calendar days from receipt of the notice from the BAC that it submitted the Lowest Calculated Bid, The Bidder shall submit the following;</p> <ol style="list-style-type: none"> a. Certified photocopy of the CY 2017 Income and Business Tax Returns filed and paid through the BIR Electronic Filing and Payment System (eFPS); b. Sections III and V of the bid documents, signed on each and every page by the bidder's authorized representative; c. Company Profile with Organizational Chart and sketch of office location; d. List of at least two (2) projects for the supply and installation of Split-type, Inverter-Type Packaged Air-conditioners for the past three (3) years. e. Detailed Equipment Design Capacity and Distribution Plan (Schedule of Equipment) in tabulation format. Use standard long-size bond paper only f. Certificate of authorized distributorship and service contractor for the past two (2) years signed by the equipment manufacturer. g. Certification from manufacturer that the equipment to be installed is compliant to environmental Directive for Restriction of Hazardous Substances (RoHS) both for electrical and electronic equipment and devices. Such certification shall be treated as compliant to RA 6969/DENR Administrative Order No. 2005-05 (Toxic Chemical Substances for Issuance of Chemical Control Orders, and; h. Notarized Warranty Certificate for Compressors covering a five (5) year period i. Certification from PICC' Mechanical Services Division that the participating bidder has conducted ocular inspection of the rooms,

	<p>location of outdoor units and panel boards, source of power supply and vicinity.</p> <p>j. Three (3) sets Installation plan and drawing using 30” by 40” size drawing sheet format – 1 set tracing paper and 2 sets blue prints.</p> <p>k. Certificate of Satisfactory Completion & Acceptance of previous PICC projects undertaken within the last three (3) years, if any.</p> <p>Failure of the bidder with the lowest calculated bid to submit the above requirements, or a finding against the veracity of such requirements shall be ground for forfeiture of the bid security and disqualification of the bidder for award.</p>
31.4(f)	<p>The following documents shall be submitted, together with the Performance Bond, within ten (10) calendar days after the receipt of the Notice of Award. Such documents shall form part of the contract;</p> <ol style="list-style-type: none"> 1. Schedule of Works; 2. Installation Methodology; and 3. Safety and Health Program.
32.2	<p>The performance security shall be in the following amount:</p> <ol style="list-style-type: none"> 1.The amount of (10% of the total contract amount), if performance security is in cash, cashier’s/manager’s check, bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank; 2.The amount of (30% of the total contract amount), if performance security is in Surety Bond duly certified by the Insurance Commission as authorized to issue such security.

Section V. Special Conditions of Contract

Section V- Special Conditions of Contract

GCC Clause	
1.17	The schedule of Completion is within THIRTY (30) CALENDAR DAYS , reckoned seven (7) calendar days after the receipt of the Notice to Proceed.
1.22	The Procuring Entity is: PHILIPPINE INTERNATIONAL CONVENTION CENTER PICC Complex, 1307 Pasay City
1.23	The Procuring Entity's Representative is: ENGR. MARIO B. MACANAS Asst. Director, MSD-TSD
1.24	The Site is located at the Amorsolo Kitchen, Documents Counter and Inner Rooms
1.28	The Start Date is the 7 th calendar day after the date of receipt of the Notice to Proceed.
1.31	The Works consist of Supply of Labor and Materials for the Installation of Split-type Packaged Air-conditioners at the Amorsolo Kitchen, Documents Distribution Counter and Inner Rooms
5.1	The PICC shall give possession of all parts of the Site to the Contractor beginning on the date of effectivity of contract until the date of its termination and/or project completion.
6.5	The Contractor shall employ the following Key Personnel : <i>[List key personnel by name and designation]</i> <i>NOTE: The names of the Key Personnel and their designation shall be filled out by winning contractor prior to contract signing.</i>
7.4(c)	No further instructions.
7.7	No further instructions.
8.1	No further instructions.
10	<i>NONE</i>
12.2	The defects liability period for this project shall be one (1) year from contract completion.
12.3	No further instructions.

12.5	<p>Warranty:</p> <p>One (1) year warranty for workmanship and materials/equipment and five (5) years warranty for compressor supplied by the Contractor. The obligation for the warranty shall be covered by, at the Contractor's option, either retention money in an amount equivalent to five percent (5%) of every progress payment or five percent (5%) of the Contract amount, or a warranty bond (callable upon demand) equivalent to five percent (5%) of the total contract amount. Said warranty obligation shall be released only after the expiration of general warranty period. However, the same will be forfeited by PICC as part of payment for any damage of surrounding equipment components/parts attributable to contractor's negligence or poor workmanship during the implementation period</p>
13	No additional provision.
18.3(h)(i)	No further instructions.
21.2	<p>The Arbiter is:</p> <p>Construction Industry Arbitration Commission</p>
34.3	The Funding Source is the <i>2018 Approved PICC Budget</i> .
40.1	<p>Payment</p> <p>Payments to be made by two (2) schedules and may be released within three (3) weeks in accordance with the following progress payment schedules and requirements:</p> <ol style="list-style-type: none"> 1. First payment – Fifty percent (50%) of the total value of the project shall be released after complete delivery of all multi-split, inverter type indoor and outdoor units. Payment shall only be processed upon submission of billing statement, sales invoice, delivery receipts, confirmed/approved accomplishment report and the following manuals to verify compliance to specification: <ol style="list-style-type: none"> 1.1. Two (2) set Original manufacturer's system design manual and brochure, 1.2. Two (2) set Original manufacturer's installation manual. 1.3 Original copy of Certification from manufacturer that the equipment to be installed is environment-friendly compliant to Directive for Restriction of Hazardous Substance (RoHS) both for electrical and electronic equipment and devices 2. Second and final payment – Fifty percent (50%) of the total value of the project shall be released after complete (100%) delivery and completion, turn over, and acceptance of the project. Payment shall only be processed upon submission of: <ol style="list-style-type: none"> 2.1. Billing statement, sales invoice, equipment delivery receipts, waste material turnover receipts, warranty/guarantee bond; 2.2. Receiving copy of delivery receipts of spare parts on drain pumps, indoor printed circuit boards and outdoor printed circuit boards;

	<ul style="list-style-type: none">2.3. Two (2) sets of Equipment Original manufacturer's copy of operation and maintenance manual for each indoor unit and outdoor unit.2.4. Design software for specific load/capacity calculation of the units to be installed;2.5. Three (3) sets Detailed As-built installation plans and three (3) sets electrical layout. One of the three (3) sets of each plan is the original drawing using tracing paper, 30"x40" sheet format. Others are in blue prints.2.6. Photocopy of Original copy of Certification from manufacturer that the equipment to be installed is environment-friendly compliant to Directive for Restriction of Hazardous Substance both for electrical and electronic equipment and devices, and2.7 Original Notarized copy of Five (5)-Year Warranty Certificate for all compressors supplied2.8 Equipment/System Operation and Commissioning Test Data Report for each indoor and outdoor equipment following condition and data requirements as specified under Conditions Item No. 10.2.9 Photocopy of Training Certificate issued by the Contractor.2.10 Contractor's Recommendation for:<ul style="list-style-type: none">2.10.1 Proper maintenance forms for observations, monitoring and recording operational data and trouble.2.10.2 Proper periodic maintenance check-up activities and standard operating procedures on daily, weekly, monthly, quarterly and annual basis.2.11 Progress payments shall be subject to ten percent (10%) retention money. The retention money shall be returned after the warranty period which is one (1) year after final acceptance.
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Section VI. Specifications

SUPPLY OF LABOR AND MATERIALS FOR THE INSTALLATION OF SPLIT-TYPE PACKAGED AIRCONDITIONERS AT THE AMORSOLO KITCHEN, DOCUMENTS DISTRIBUTION COUNTER AND INNER ROOMS

A. SPECIFIC SCOPE OF WORKS:

Supply, delivery and installation of Split-type, Inverter-type, Packaged Air-conditioners at Documents Distribution Counter and Inner Rooms and Amorsolo Kitchen to include, but not limited to, the following:

1. DOCUMENT DISTRIBUTION COUNTER AND INNER ROOMS

A.1. SPECIFIC SCOPE OF WORKS:

- 1.0 Supply and deliver the following minimum requirement multi-split, inverter type packaged-type air conditioning units:
 - 1.1. One (1) unit, 5.0HP Cooling Capacity, Fan Coil Unit (FCU), Ceiling Cassette-type, 4-way airflow/round airflow free-blow with very low or low noise/sound level – Low: 34-36dB(A), Medium: 37-39dB(A) and High: 42-44dB(A) measured at 1.5 meter away from the unit, Airflow rate – Low: 750-850cfm, Medium: 950-1,050cfm, High: 1,100-1,200cfm, 220-230 Volts, 1 Phase, 60Hz using environment-friendly refrigerant, R-410A; with portable remote control and fixed remote control on-off switch. The fixed remote control on-off switch shall be installed near the main door. See attached drawing for the exact location
 - 1.2. One (1) unit, 5.0HP Cooling Capacity, Air-Cooled Condensing Unit, (ACCU), Scroll-type compressor, inverter-type, utilizing R-410A Refrigerant, 220-230Volts, 3 Phase, 60Hz. If the outdoor unit is 380V or 440-460V, the Contractor shall provide a transformer.
 - 1.3. One (1) unit, 3.2HP Cooling Capacity, Fan Coil Unit (FCU), Ceiling Cassette-type, 4-way airflow/round airflow free-blow with very low or low noise/sound level – Low: 32-35dB(A), Medium: 36-39dB(A) and High: 40-43dB(A) measured at 1.5 meter away from the unit, Airflow rate – Low: 700-800cfm, Medium: 900-1,000cfm, High: 1,100-1,200cfm, 220-230 Volts, 1 Phase, 60Hz using environment-friendly refrigerant, R-410A; with portable remote control and fixed remote control on-off switch. The fixed remote control on-off switch shall be installed near the main door. See attached drawing for the exact location.
 - 1.4. One (1) unit, 3.2HP Cooling Capacity, Air-Cooled Condensing Unit, (ACCU), Scroll-type compressor, inverter-type, utilizing R-410A Refrigerant, 220-230Volts, 3 Phase, 60Hz. If the outdoor unit is 380V or 440-460V, the Contractor shall provide a transformer.
 - 1.5. Various Electrical Materials:
 - 1.5.1. One (1) lot Panelboards and Electrical Wires:
 - a. From Distribution Panelboard / Transformer (Tapping point at the AHU Room D-11 Machine Room) to Main Circuit Breaker

Use:

- Enclosed Circuit Breaker (Main Breaker) 60AT/AF, Molded Case Circuit Breaker, 3-poles, 60Hz, or what is being recommended by the manufacturer
- Wires and Conduits: 3 x 5.5mm² THHN Copper wire + 1 x 5.5mm² THHN (ground) Complete with IMC conduits

b. From Panelboard to aircon unit (Outdoor and Indoor Units)

Use:

- Wires and Conduits: THHN copper wires in IMC conduit.

Note: Sizes of conductor and conduit will depend on the actual capacity of aircon units and/or as recommended by the manufacturer

1.5.2. One (1) lot hangers and support

1.5.3. One (1) lot digital electrical watt-hour meter, 3-phase, 3 wires, 230 volts, compatible with Building Management System (BMS) connection for the proper monitoring of the total power consumption of the air conditioning units/system to be installed.

- 2.0 Miscellaneous Materials (hard-drawn copper tubing, type "L" and fittings, PVC pipe & fittings, 1-inch thick close-cell insulation, aeroflex or equivalent, polyethylene tape, electrical tapes, flat bar/angle bar, threaded round bar, aluminum sheet, paint, cement, sand and gravel etc.)
- 3.0 Mobilization of equipment
- 4.0 Dismantle with care the existing Louver Enclosure adjacent to the Fire Exit facing Courtyard and re-install it aligned with the end glass wall/panels (see attached approved drawing) to add more space for the location of the ACCU. Repair if necessary.
- 5.0 Install Indoor/Outdoor at the location indicated in the approved plans. Exact locations as approved, may vary during actual installation [+ or – one (1) meter] of equipment if necessity warrants. Provide vibration isolators. Fabricate/provide a well-designed ceiling supports or brackets to ensure safe and reliable system operations.
- 6.0 Install Outdoor Units at approved areas along the glass wall/panels at the Courtyard Area adjacent to the Fire Exit Staircase. Exact locations as approved, may vary during actual installation [+ or – one (1) meter] of equipment if necessity warrants. Fabricate angular metal, (2inches x 2inches x 1/4 inches) base/stand and metal support brackets with footings embedded on a concrete base, 5ft(L) x 3 ft (W)x 5 inches (T).
- 7.0 Re-route or relocate air duct, electrical conduits and other materials inside the ceiling obstructing the installation area of the indoor unit or fan coil unit. Free the installation area of any obstruction and restore the functionality of those re-routed facilities or building/system attachment.
- 8.0 Perform pipe laying (Hard-drawn copper tubes, type "L") and system interconnectivities/welding works.
- 9.0 Install Condensate Drain Pipe (PVC Pipe, 1-inch thick close-cell insulation, Polyethylene Tape) and its hanger & support system. Tap to the nearest approved drain line.

- 10.0 Conduct electrical installations using appropriate electrical breakers, wires, conduits, watt-hour meter and other electrical materials to ensure safe and reliable system operations.
- 11.0 Conduct leak testing
- 12.0 Insulate the refrigerant suction lines and condensate drain lines by 1-inch thick close-cell insulation, aeroflex or approved equivalent complete with aluminum cladding once it passed the leak testing
- 13.0 Vacuum individual system.
- 14.0 Break vacuum and charge initial R410A refrigerant.
- 15.0 Perform flushing of each of the Split-Type Packaged A/C Systems installed at the subject areas
- 16.0 Recharge system to full-charge condition with R410A.
- 17.0 Operate systems and take operating data to serve as a guide for needed re- calibration and/or corrective service/s.
- 18.0 Tapped/connect the existing air-conditioning unit serving the Documents Distribution Inner Room to the newly installed watt-hour meter for power consumption monitoring.
- 19.0 Conduct final testing and commissioning of all the supplied, and installed Packaged Air-conditioning Units in the presence of PICC's Project-in-Charge or his authorized representative.
- 20.0 Clean the area and properly dispose/haul waste materials and debris out of the PICC premises.
- 21.0 Restoration cost on damaged equipment or any property due to contractor's poor workmanships or negligence must be borne by the Contractor
- 22.0 Project turnover and acceptance
- 23.0 Demobilization

2. AMORSOLO KITCHEN:

A.2. SPECIFIC SCOPE OF WORKS:

- 1.0. Supply and deliver the following minimum requirement multi-split, inverter type packaged-type air conditioning units:
 - 1.1 Two (2) units, 5.0HP Cooling Capacity, Fan Coil Unit (FCU), Ceiling Cassette-type, 4-way airflow/round airflow free-blow with very low or low noise/sound level – Low: 34-36dB(A), Medium: 37-39dB(A) and High: 42-44dB(A) measured at 1.5 meter away from the unit, Airflow rate – Low: 750-850cfm, Medium: 950-1,050cfm, High: 1,100-1,200cfm, 220-230 Volts, 1 Phase, 60Hz using environment-friendly refrigerant, R-410A; with portable remote control and fixed remote control on-off switch. The fixed remote control on-off switch shall be installed near the main door. See attached drawing for the exact location.

1.2. Two (2) units, 5.0HP Cooling Capacity, Air-Cooled Condensing Unit, (ACCU), Scroll-type compressor, inverter-type, utilizing R-410A Refrigerant, 220-230Volts, 3 Phase, 60Hz. If the outdoor unit is 380V or 440-460V, the Contractor shall provide a transformer.

1.3. Various Electrical Materials:

1.3.1 Panelboards and Electrical Wires:

a. From Distribution Panelboard / Transformer (Tapping point at the AHU Room S-11 Machine Room) to Main Circuit Breaker

Use:

- Enclosed Circuit Breaker (Main Breaker) 60AT/AF, Molded Case Circuit Breaker, 3-poles, 60Hz, or what is being recommended by the manufacturer
- Wires and Conduits: 3 x 5.5mm² THHN Copper wire + 1 x 5.5mm² THHN (ground) Complete with IMC conduits

b. From Panelboard to aircon unit (Outdoor and Indoor Units)

Use:

- Wires and Conduits: THHN copper wires in IMC conduit.

Note: Sizes of conductor and conduit will depend on the actual capacity of aircon units and/or as recommended by the manufacturer

1.3.2. One (1) lot hangers and support

1.3.3. One (1) lot digital electrical watt-hour meter, 3-phase, 3 wires, 230 volts, compatible with Building Management System (BMS) connection for the proper monitoring of the total power consumption of the air conditioning units/system to be installed.

1.4. One (1) lot louver enclosure for the outdoor or condenser units serving Amorsolo Kitchen. Louver design, materials specification (Hardiflex or approved equivalent), paint color, space clearances, pedestal/ concrete foundation, and cost estimate process shall be based on the existing condenser louver serving Room D-100. Paint color is black.

2.0 Miscellaneous Materials (hard-drawn copper tubing, type "L" and fittings, PVC pipe & fittings, 1-inch thick close-cell insulation, aeroflex or equivalent, polyethylene tape, electrical tapes, flat bar/angle bar, threaded round bar, aluminum sheet, paint, cement, sand and gravel etc.)

3.0. Mobilization of equipment

4.0. Dismantle existing air-conditioning units including all accessories and turn over the said equipment and accessories to PICC's Project-in-Charge or his authorized representative.

5.0. Dismantle with care the existing Supply/Return Ducts of the Existing Air-conditioning unit located at the back hallway connecting the Banquet Hall 3 and Main Kitchen. Haul/Dispose the said dismantled ducts to the designated disposal area. Be careful not to damage the existing above-ceiling Supply/Return ducts. Tapped the Ducted Ceiling Concealed FCU to these above-ceiling Supply/Return ducts as indicated in the

- drawing using appropriate materials to eliminate vibration and ensure a noise free operation of the unit. The contractor must conduct actual site survey to properly assess the work to be done before implementing the work.
- 6.0. Install Indoor/Outdoor at the location indicated in the approved plans. Exact locations as approved, may vary during actual installation [+ or – one (1) meter] of equipment if necessity warrants. Provide vibration isolators. Fabricate/provide a well-designed ceiling supports or brackets to ensure safe and reliable system operations.
 - 7.0. Install Outdoor Units at approved areas along the glass wall/panels at the Courtyard Area adjacent to the North Wing Hall. Exact locations as approved, may vary during actual installation [+ or – one (1) meter] of equipment if necessity warrants. Fabricate angular metal, (2inches x 2inches x 1/4 inches) base/stand and metal support brackets with footings embedded on a concrete base, 5ft(L) x 3 ft (W)x 5 inches (T).
 - 8.0. Re-route or relocate air duct, electrical conduits and other materials inside the ceiling obstructing the installation area of the indoor unit or fan coil unit. Free the installation area of any obstruction and restore the functionality of those re-routed facilities or building/system attachment.
 - 9.0. Perform pipe laying (Hard-drawn copper tubes, type “L”) and system interconnectivities/welding works.
 - 10.0. Install Condensate Drain Pipe (PVC Pipe, 1-inch thick close-cell insulation, Polyethylene Tape) and its hanger & support system. Tap to the nearest approved drain line.
 - 11.0. Conduct wiring installations using appropriate electrical breakers, wires, conduits and other electrical materials to ensure safe and reliable system operations.
 - 12.0. Conduct leak testing
 - 13.0. Insulate the refrigerant suction lines and condensate drain lines by 1-inch thick close-cell insulation, aeroflex or approved equivalent complete with aluminum cladding once it passed the leak testing
 - 14.0. Vacuum individual system.
 - 15.0. Break vacuum and charge initial R410A refrigerant.
 - 16.0. Perform flushing of each of the Split-Type Packaged A/C Systems installed at the subject areas
 - 17.0. Recharge system to full-charge condition with R410A.
 - 18.0. Operate systems and take operating data to serve as a guide for needed re- calibration and/or corrective service/s.
 - 19.0. Tapped/connect the existing air-conditioning units serving the Amorsolo Restaurant to the newly installed watt-hour meter for power consumption monitoring.
 - 20.0. Conduct final testing and commissioning of all the supplied, and installed Packaged Airconditioning Units in the presence of PICC’s Project-in-Charge or his authorized representative.
 - 21.0. Clean the area and properly dispose/haul waste materials and debris out of the PICC premises.
 - 22.0. Restoration cost on damaged equipment or any property due to contractor’s poor workmanships or negligence must be borne by the Contractor

23.0. Project turnover and acceptance

24.0. Demobilization

B. GENERAL CONDITIONS:

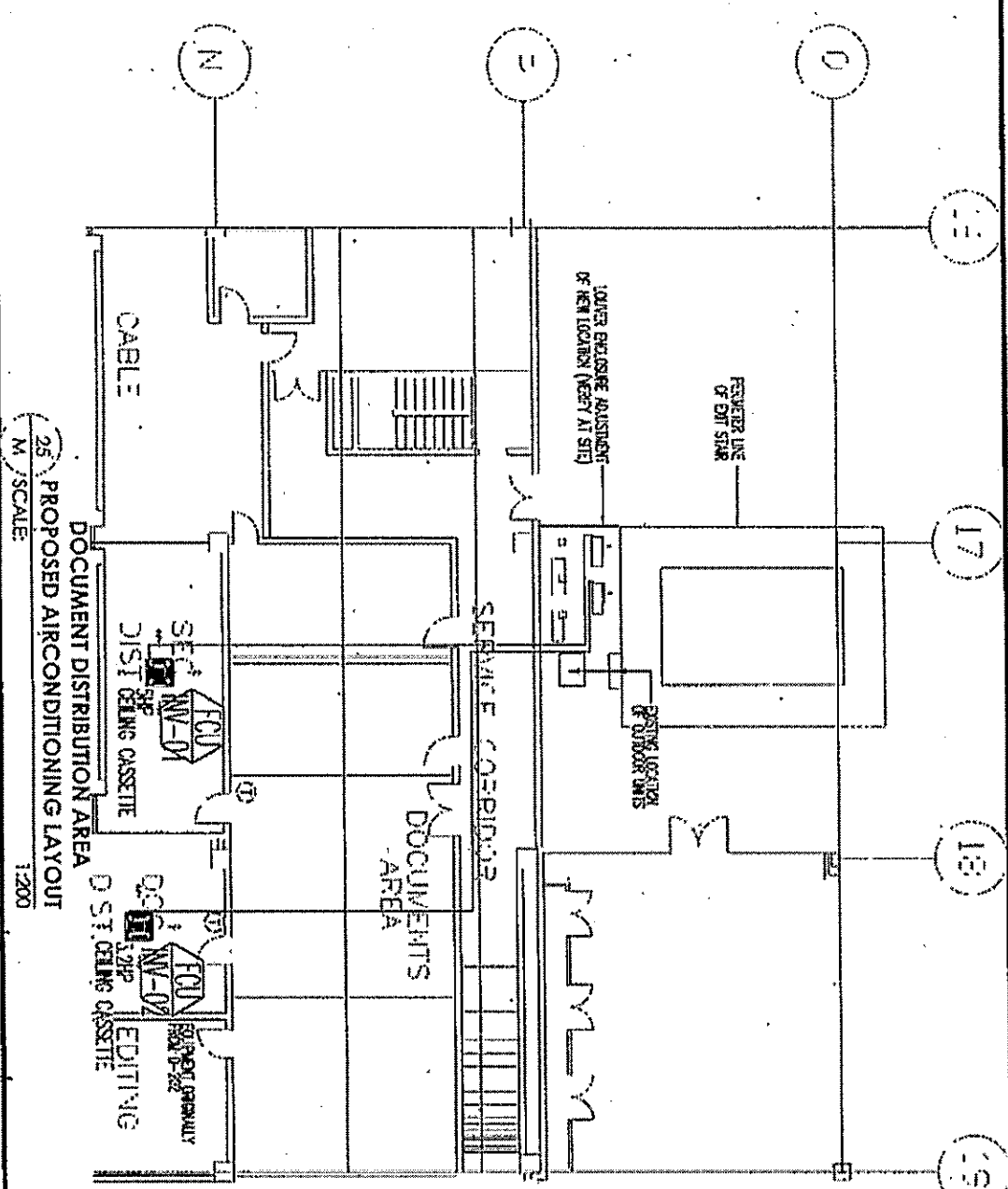
1. The contractor must conduct site survey and inspection.
2. Any work that may affect the operation and security measures of PICC shall be coordinated properly and shall be done in accordance with the PICC' approved schedule.
3. As a requirement, the contractor must have in its organization or assign personnel, at least a licensed/registered mechanical engineer personnel during the implementation of the project.
4. Welding works or any "hot work" requirement of the project must be coordinated with the Project-in-Charge, MSD Assistant Director and with the TSD Director for approval.
5. All indoor units to be offered/supplied must be installed at the location indicated in the approved drawing with rigid metal support to lessen vibratory effect and that, at low operation noise level. Indoor Unit noise level shall be of the "silent-type, ranging from 35-38dB(A) for Low and 39-42dB(A) for High.
6. Pipe runs must have a support post or brackets, 2 meters apart. (Use 1x1 angle bar and G.I. U-bolt set).
7. All electrical works, size of wires, circuit breakers, wirings, safety gadgets and controllers must conform with the standard practice in the industry and in accordance with the latest edition of the Electrical Code of the Philippines for safety.
8. All units/system must be in full charge of appropriate compressor oil and Refrigerant to ensure long life and continuous reliability of equipment/system operation.
9. All metal supports, hangers, brackets, clamps and bases of the A/C units/equipment must be painted with epoxy primer gray, one (1) coat and two (2) coats epoxy paint gray finish.
10. The contractor after final testing of the equipment must submit the equipment test operation result with test data as attachment.
11. Conduct Training/Seminar for the proper operation & maintenance of the newly installed A/C units/equipment to be attended by selected MSD/EECSO – TSD Personnel.
12. The contractor warrants that its personnel and/or representatives to be assigned shall comply with and submit themselves to the PICC' policies, procedures, rules and regulation concerning security, safety, health, environmental protection, energy conservation, coordination system, materials and parts issuance, etc. Contractor's personnel to be assigned for the project must be in uniform with IDs throughout the duration of the project.
13. The Contractor should free the PICC and its personnel from and against all liabilities arising from injuries or liabilities to persons or damages to property occasioned by any act or omissions by the Contractor including any and all expenses, legal or otherwise which may be incurred by PICC and its personnel in the defense of any claim, action or suit.

Section VII. Drawings











PICCC
Philippine Interdisciplinary
Construction Center

TITLE		DATE	PREPARED BY	RECOMMENDING FOR APPROVAL	APPROVED BY
PROPOSED INVERTER-TYPE PACKAGED AIR-CONDITIONING UNITS		02-16-18	ENGR. GONN H. JUBILADO SENIOR MECHANICAL TECH. I/SD	ENGR. WILSON B. DELOS REYES DIRECTOR TSD	ATTY. RENATO B. BADIOLA GENERAL MANAGER
LOCATION	REVISION	CHECKED BY	ENGR. MARIO B. MACANAS ASSISTANT DIRECTOR, I/SD		
PICCC COMPLEX, PASAY CITY	00				


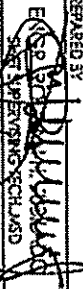
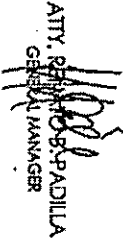


- 25' PROPOSED AIRCONDITIONING LAYOUT
1:200 SCALE
- MECHANICAL LEGENDS & ABBREVIATIONS**
- | | | | |
|-------|----------------------------|------|----------------------------|
| FCU | FAN COIL UNIT | KW | HEAVYWT. |
| ACCU | AIR COOLED CONDENSING UNIT | V | VOLTS |
| CL | CLUSTER | PH | PHASE |
| HP | HOSPITOWER | HZ | HERTZ |
| KG | ROSGRAM | | |
| RU-1 | CEILING CASSETTE 1.25HP | KG. | VARIBLE REFRIGERANT VOLUME |
| RU-2 | CEILING CASSETTE 1.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-3 | CEILING CASSETTE 2HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-4 | CEILING CASSETTE 2.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-5 | CEILING CASSETTE 3HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-6 | CEILING CASSETTE 3.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-7 | CEILING CASSETTE 4HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-8 | CEILING CASSETTE 4.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-9 | CEILING CASSETTE 5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-10 | CEILING CASSETTE 5.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-11 | CEILING CASSETTE 6HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-12 | CEILING CASSETTE 6.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-13 | CEILING CASSETTE 7HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-14 | CEILING CASSETTE 7.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-15 | CEILING CASSETTE 8HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-16 | CEILING CASSETTE 8.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-17 | CEILING CASSETTE 9HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-18 | CEILING CASSETTE 9.5HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| RU-19 | CEILING CASSETTE 10HP | VAR. | VARIBLE REFRIGERANT VOLUME |
| TR | TONS OF REFRIGERATION | SAG | SEPARATE AIR GRILE |
| QTY. | QUANTITY | RAO | RETURN AIR OUTLET |
| TYPE | TYPE | RAE | RETURN AIR REGISTER |
| REV | REVISION-TYPE A/C | RAE | RETURN AIR REGISTER |
| RAV | RETURN AIR VALVE | RAO | RETURN AIR OUTLET |
| WSD | WATER SUPPLY | | |
| WED | WATER EXHAUST | | |
- GENERAL NOTES:**
- POWER SUPPLY TAPPING POINT FOR ACCU IS AT (AHU ROOM D-11).
 - CONTRACTOR TO PROVIDE STEP UP POWER TRANSFORMER AND ITS PROTECTION HOUSING FOR 440-460V/ 380V SUPPLIED EQUIPMENT. REFER TO TECHNICAL SPECIFICATION.
 - CONTRACTOR TO PROVIDE 1-LOT ELECTRIC WATT-HOUR METER FOR MONITORING OF ELECTRIC POWER CONSUMPTION AT THE ROOM. REFER TO TECHNICAL SPECIFICATION.
 - TO INSTALL ACCU AT COURTYARD AREA, ADJACENT OF THE FIRE EXIT (VERIFY AT SITE).
 - ACTUAL LOCATION OF FCU AND ACCU MAY ADJUST ACCORDING TO ACTUAL SITE CONDITION. CONTRACTOR TO VERIFY AT SITE ALL LOCATION OF EQUIPMENT, POWER SUPPLY TAPPING POINTS, PIPE ROUTINGS, ETC. SUBMIT SHOP DRAWING TO TSD-MSP PRIOR TO ACTUAL INSTALLATION.
 - CONDENSATE DRAIN TO BE TAPPED TO NEAREST DRAIN LINE OR APPROVED LOCATION.
 - ACTUAL LOCATION OF WIRED REMOTE CONTROLLER, TRANSFORMER, POWER SUPPLY TAPPING POINT MAY ADJUST ACCORDING TO ACTUAL SITE CONDITION (VERIFY AT SITE).

INVERTER TYPE AIR-CONDITIONING UNITS

UNIT	QTY	CAPACITY KW (HP)	LEVEL	AREA/ROOMS SERVED	REFRIGERANT	INDOOR UNIT DATA				OUTDOOR UNIT DATA				POWER CONSUMPTION (KW)				
						FOU	QTY	KW (HP)	TYPE	AIR FLOW (CMH)	WEIGHT (KG)	TYPE	COMPRESSOR (KW OUTPUT)		ELECTRICAL DATA V PH HZ	WEIGHT (KG)		
	1	13.18 (5.00)	6RD FLR	DISTRIBUTION AREA	R-410A		1	13.18 (5.00)	CEILING CASSETTE (GROUND FLOW)	2.551	24	PROPPELLER HORIZONTAL DISCHARGE	2.03	230	3	50	85	5.62
	1	2.44 (1.2)	5RD FLR	DOCUMENTS AREA	R-410A		1	2.44 (1.2)	CEILING CASSETTE (GROUND FLOW)	1.532	24	PROPPELLER HORIZONTAL DISCHARGE	2.03	230	3	50	85	5.62
	1	13.18 (5.00)	6RD FLR	AUDITORIUM KITCHEN	R-410A		1	13.18 (5.00)	CEILING CASSETTE (GROUND FLOW)	2.551	24	PROPPELLER HORIZONTAL DISCHARGE	2.03	230	3	50	85	5.62
	1	13.18 (5.00)	6RD FLR	AUDITORIUM KITCHEN	R-410A		1	13.18 (5.00)	CEILING CASSETTE (GROUND FLOW)	2.551	24	PROPPELLER HORIZONTAL DISCHARGE	2.03	230	3	50	85	5.62

5 EQUIPMENT SCHEDULE
M / SCALE NTS

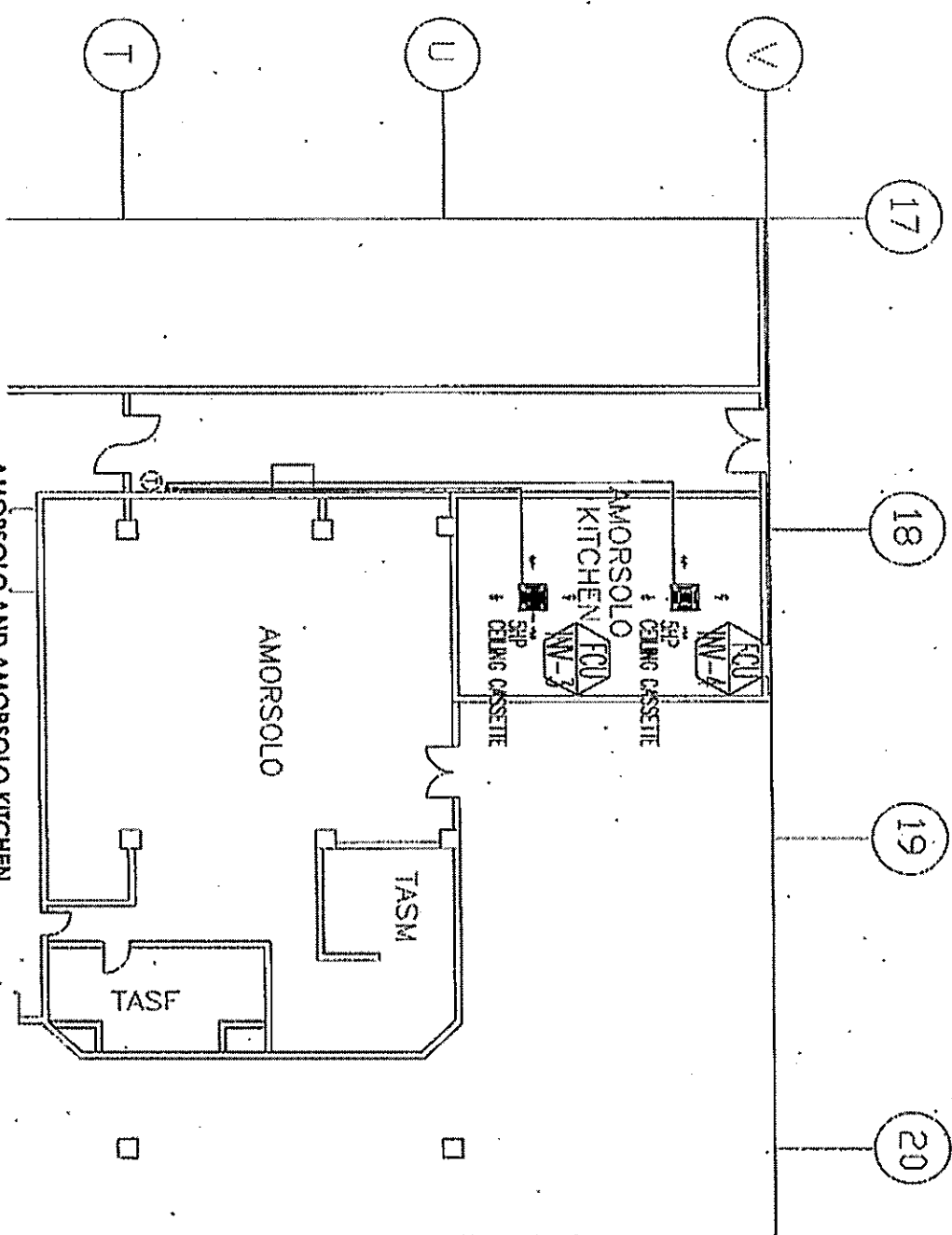
 Philippine International Construction Center	TITLE	DATE	PREPARED BY	RECOMMENDING FOR APPROVAL	APPROVED BY
	PROPOSED VRF/VRF PACKAGED AIR-CONDITIONING SYSTEM LOCATION: PICC COMPLEX, PASAY CITY	02-16-18		ENGR. WILSON B. DELOS REYES DIRECTOR, ISD	
	REVISION	CHECKED BY	ENGR. MARCO B. MACAVASAY ASSISTANT DIRECTOR, ISD		
	00				

2



TITLE		DATE	PREPARED BY	RECOMMENDING FOR APPROVAL	APPROVED BY
PROPOSED INVERTER-TYPE PACKAGED AIR-CONDITIONING UNITS		02-16-18	ENGR. MARIBO B. DELOS REYES SENIOR SUPERVISOR/TECH. LEAD	ENGR. MARIBO B. DELOS REYES DIRECTOR/ISD	ATTY. RICHARD B. PADILLA GENERAL MANAGER
LOCATION		REVISION	CHECKED BY		
PICC COMPLEX, PASAY CITY		00	ENGR. MARIBO B. DELOS REYES ASSISTANT DIRECTOR/ASD		

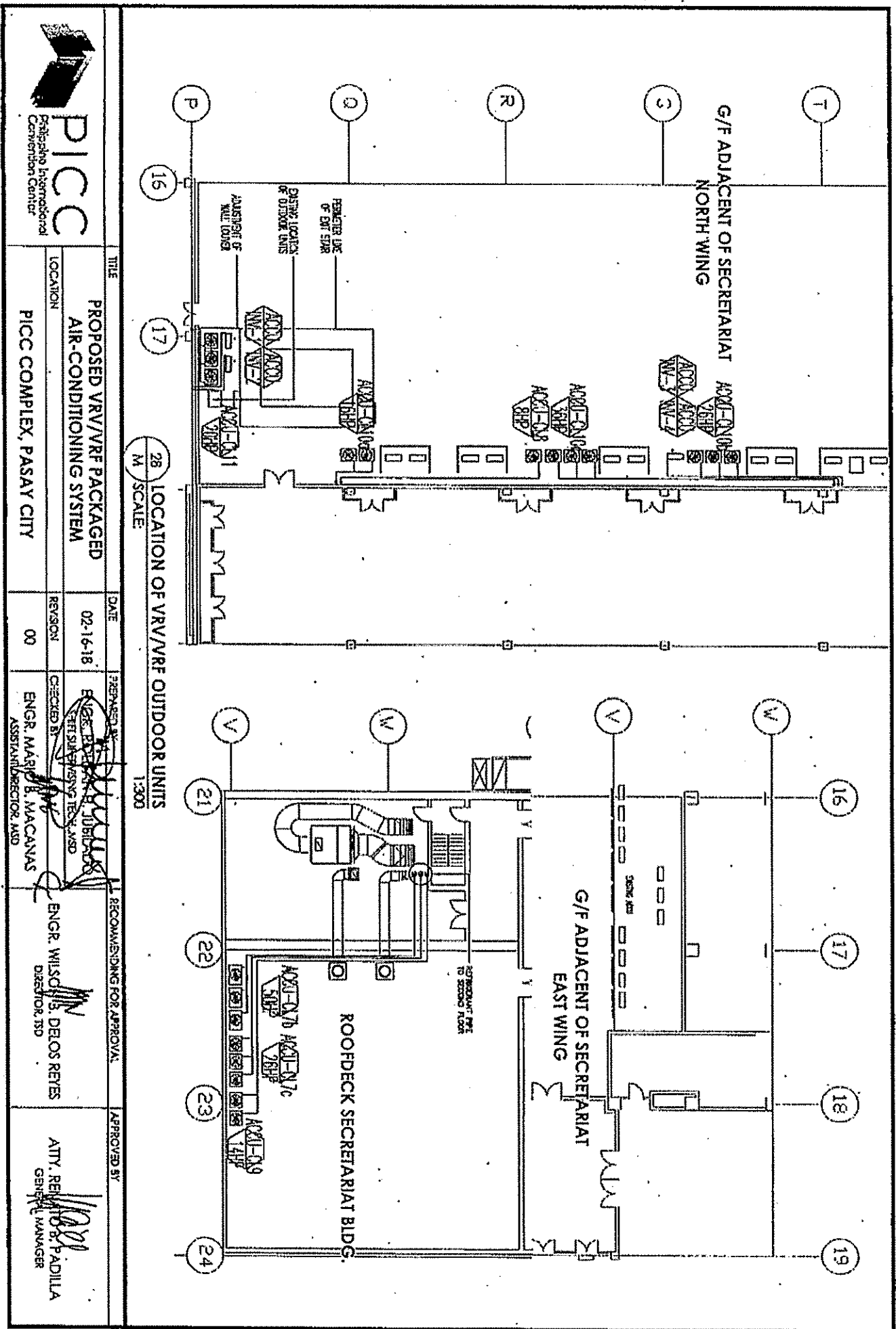
26
M SCALE: 1:200
AMORSOLO AND AMORSOLO KITCHEN
PROPOSED AIRCONDITIONING LAYOUT



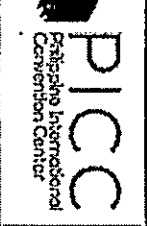
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
FCU	FAN COIL UNIT	KOL	LOADING
ACCU	AIR COOLED CONDENSING UNIT	IN	INFLUENT
CL	CLUSTER	VAR	VARIABLE SPEED/CONSTANT FLOW
HP	HOSPITOWER	QPM	QUICK FITS PER UNIT
TR	TONS OF REFRIGERATION	QHR	QUICK FITS PER HOUR
QTY	QUANTITY	RODR	RODR CONNECTION
TRP	TRIP	DOVT	DOVT
INT	INVERTER-TYPE A/C	SAD	SAFETY AIR DUCT
WFC	WIRED REMOTE CONTROL	SAC	SAFETY AIR CHUTE
KW	KILOWATT	RAD	RETURN AIR DUCT
V	VOLTS	PAR	RETURN AIR REGISTER
PH	PHASE	PAC	RETURN AIR GRILLE
HZ	HERTZ		

GENERAL NOTES:

1. POWER SUPPLY TAPPING POINT FOR ACCU IS AT (USE EXISTING POWER, ACCU AREA COURTYARD, ADJACENT OF NORTHWING HALL).
2. CONTRACTOR TO PROVIDE STEP UP POWER TRANSFORMER AND ITS PROTECTION HOUSING FOR 440-480V/380V SUPPLIED EQUIPMENT. REFER TO TECHNICAL SPECIFICATION.
3. CONTRACTOR TO PROVIDE 1-HOT ELECTRIC WATT-HOUR METER FOR MONITORING OF ELECTRIC POWER CONSUMPTION AT THE ROOM. REFER TO TECHNICAL SPECIFICATION.
4. TO INSTALL AT ACCU AREA COURTYARD, ADJACENT OF NORTHWING HALL (VERIFY AT SITE).
5. ACTUAL LOCATION OF FCU AND ACCU MAY ADJUST ACCORDING TO ACTUAL SITE CONDITION.
6. CONTRACTOR TO VERIFY AT SITE ALL LOCATION OF EQUIPMENT, POWER SUPPLY TAPPING POINTS, PIPE ROUTINGS, ETC. SUBMIT SHOP DRAWING TO TSD-MSD PRIOR TO ACTUAL INSTALLATION.
7. CONDENSATE DRAIN TO BE TAPPED TO NEAREST DRAIN LINE OR APPROVED LOCATION.
8. PROVIDE LOUVER ENCLOSURE (VERIFY AT SITE).
9. ACTUAL LOCATION OF WIRED REMOTE CONTROLLER, TRANSFORMER, POWER SUPPLY TAPPING POINT MAY ADJUST ACCORDING TO ACTUAL SITE CONDITION (VERIFY AT SITE).



28 LOCATION OF VRV/RF OUTDOOR UNITS
 M SCALE: 1:300



TITLE		DATE	PREPARED BY	RECOMMENDING FOR APPROVAL	APPROVED BY
PROPOSED VRV/RF PACKAGED AIR-CONDITIONING SYSTEM		02-16-18	ENGR. MARIBEL B. MACAYANAS <small>ENGR. SUPERVISING TECH. ASD</small>	ENGR. WILSON B. DELOS REYES <small>DISTOR. TSD</small>	ATTY. GENERAL <small>GENERAL MANAGER</small>
LOCATION	PICCC COMPLEX, PASAY CITY	REVISION	00	ENGR. MARIBEL B. MACAYANAS <small>ASSISTANT DIRECTOR, ASD</small>	

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Section VIII. Bill of Quantities

BILL OF QUANTITIES

Project Title: Supply, Delivery and Installation of Split-type, Inverter-Type, Packaged Air-conditioners

Location : Document Distribution Counter & Inner Room

Date:

ITEM NO.	ITEM	QTY	UNIT	UNIT COST	TOTAL
	MECHANICAL WORKS				
1.0	Direct Cost				
1.1	Indoor Unit, 5HP Cooling Capacity, Ceiling Cassette-type, 4-way airflow/round airflow free-blow, 220-240 Volts, 1 Phase, 60Hz using environment-friendly refrigerant, R-410A; with portable remote control and fixed remote control on-off switch	1	set/s		
	Outdoor, Scroll-type compressor, inverter-type, utilizing R- 410A Refrigerant, 220-240Volts, 3Phase, 60Hz.				
1.2	Indoor Unit, 3.2HP Cooling Capacity, Ceiling Cassette-type, 4-way airflow/round airflow free-blow, 220-240 Volts, 1 Phase, 60Hz using environment-friendly refrigerant, R-410A; with portable remote control and fixed remote control on-off switch	1	set/s		
	Outdoor, Scroll-type compressor, inverter-type, utilizing R- 410A Refrigerant, 220-240Volts, 3Phase, 60Hz.				
1.3	Wired Remote Controller	2	unit/s		
1.4	Louver Enclosure (Relocation/Repair Works)	1	lot		
1.5	Watt-hour Meter	1	unit/s		
1.6	Hard drawn copper pipes (Type L)	1	lot		
1.7	Closed-cell rubber insulation	1	lot		
1.8	Condensate Drain Pipes w/ Insulation	1	lot		
1.9	Electrical Wires	1	lot		
1.10	Refrigerant R410A	1	lot		
1.11	Environment-friendly cleaning agent R-141B	1	lot		
1.12	Nitrogen gas for flushing and cleaning of pipes	1	lot		
1.13	Oxygen-acetylene gas for cutting and welding works	1	lot		
1.14	Silver rods and other miscellaneous materials	1	lot		
1.15	Angle bar, 3/16" thk for base of fcu 1/8" for supports	1	lot		
1.16	Epoxy primer, enamel paints and other parts materials	1	lot		
1.17	Restoration Works Affected by Installation / Miscellaneous	1	lot		
1.18	Testing & Commissioning	1	lot		
	Total Direct Cost				
2.0	Indirect Cost				
2.1	Labor Cost	1	lot		
	Total Indirect Cost				
	Total (Supply & Installation of Inverter PACUs at Documents Distribution Counter & Inner Room)				

Prepared by:

Name / Signature

BILL OF QUANTITIES

Project Title: Supply, Delivery and Installation of Split-type, Inverter-Type, Packaged Air-conditioners

Location : Amorsolo Kitchen

Date:

ITEM NO.	ITEM	QTY	UNIT	UNIT COST	TOTAL
	MECHANICAL WORKS				
1.0	Direct Cost				
1.1	Indoor Unit, 5HP Cooling Capacity, Ceiling Cassette-type, 4-way airflow/round airflow free-blow, 220-240 Volts, 1 Phase, 60Hz using environment-friendly refrigerant, R-410A; with portable remote control and fixed remote control on-off switch Outdoor, Scroll-type compressor, inverter-type, utilizing R- 410A Refrigerant, 220-240Volts, 3Phase, 60Hz.	2	set/s		
1.2	Wired Remote Controller	2	unit/s		
1.3	Louver Enclosure	1	lot		
1.4	Watt-hour Meter	1	unit/s		
1.5	Hard drawn copper pipes (Type L)	1	lot		
1.6	Closed-cell rubber insulation	1	lot		
1.7	Condensate Drain Pipes w/ Insulation	1	lot		
1.8	Electrical Wires	1	lot		
1.9	Refrigerant R410A	1	lot		
1.10	Environment-friendly cleaning agent R-141B	1	lot		
1.11	Nitrogen gas for flushing and cleaning of pipes	1	lot		
1.12	Oxygen-acetylene gas for cutting and welding works	1	lot		
1.13	Silver rods and other miscellaneous materials	1	lot		
1.14	Angle bar, 3/16" thk for base of fcu 1/8" for supports	1	lot		
1.15	Epoxy primer, enamel paints and other parts materials	1	lot		
1.16	Restoration Works Affected by Installation / Miscellaneous	1	lot		
1.17	Testing & Commissioning	1	lot		
	<i>Total Direct Cost</i>				
2.0	Indirect Cost				
2.1	Labor Cost	1	lot		
	<i>Total Indirect Cost</i>				
	Total (Supply & Installation of Inverter PACUs at Amorsolo Kitchen)				

Prepared by:

Name / Signature

Section IX. Bidding Forms

Bid Form

Date: _____

To: PHILIPPINE INTERNATIONAL CONVENTION CENTER

Address: PICC Complex 1307 Pasay City

We, the undersigned, declare that:

- (a) We have examined and have no reservation to the Bidding Documents, including Addenda, for the Contract **Supply of Labor and Materials for the Installation of Split-type Packaged Air-conditioners at the Amorsolo Kitchen, Documents Distribution Counter and Inner Rooms;**
- (b) We offer to execute the Works for this Contract in accordance with the Bid and Bid Data Sheet, General and Special Conditions of Contract accompanying this Bid;

Location	Amount (VAT Inclusive)
1. Documents Distribution Counter and Inner Rooms	P
2. Amorsolo Kitchen	P
TOTAL	P

The total price of our Bid is:

Amount in Words: _____

(P _____), VAT Inclusive.

- (c) Our Bid shall be valid for a period of *120 calendar days* from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of *[insert percentage amount]* percent of the Contract Price for the due performance of the Contract;
- (e) Our firm, including any subcontractors or suppliers for any part of the Contract, have nationalities from the following eligible countries: *[insert information]*;
- (f) We are not participating, as Bidders, in more than one Bid in this bidding process, other than alternative offers in accordance with the Bidding Documents;
- (g) Our firm, its affiliates or subsidiaries, including any subcontractors or suppliers for any part of the Contract, has not been declared ineligible by the Funding Source;
- (h) We understand that this Bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal Contract is prepared and executed; and

- (i) We understand that you are not bound to accept the Lowest Calculated Bid or any other Bid that you may receive.
- (j) We likewise certify/confirm that the undersigned, is the duly authorized representative of the bidder, and granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for the Supply of Labor and Materials for the Installation of Split-type Packaged Air-conditioners at the Amorsolo Kitchen, Documents Distribution Counter and Inner Rooms;
- (k) We acknowledge that failure to sign each and every page of this Bid Form, including the Bill of Quantities, shall be a ground for the rejection of our bid.
- (l) Attached to the Bid Form are the Bill of Quantities per location;

Name: _____

In the capacity of: _____

Signed: _____

Duly authorized to sign the Bid for and on behalf of: _____

Date: _____

**PHILIPPINE INTERNATIONAL CONVENTION CENTER
BIDS AND AWARDS COMMITTEE**

CHECKLIST OF REQUIREMENTS

**Supply of Labor and Materials for the Installation of Split-type Packaged Air-conditioners
at the Amorsolo Kitchen, Documents Distribution Counter and Inner Rooms**

Bidders shall submit their bids through their duly authorized representative using the forms specified in the Bidding Documents in **two (2) separate sealed bid envelopes**, and which shall be submitted simultaneously. The first envelope shall contain the technical component of the bid including the eligibility requirements and the second shall contain the financial component of the bid.

I. FIRST ENVELOPE: ELIGIBILITY AND TECHNICAL COMPONENTS:

A. ELIGIBILITY DOCUMENTS:

1. Certified photocopy of the valid and current PhilGEPS Certificate of Registration – Platinum Membership. The certificate shall be submitted together with Annex "A".

If any document mentioned in "Annex "A" is not current, the new document should be submitted. In case of a recently expired Mayor's/Business permit, such shall be accepted together with the official receipt as proof that it has applied for a renewal, however the renewed permit shall be submitted as a post-qualification requirement.

2. Statement of all on-going government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (**ANNEX "A"**);
3. Statement of the Single Largest Completed Contract (SLCC) similar to the contract to be bid, entered into within the last three (3) years from the date of submission and opening of bids, and whose value must be at least fifty percent (50%) of the ABC. (**ANNEX "B"**) Attach the following:
 - a. Certified photocopy of the SLCC; and
 - b. Certificate of Final Acceptance issued by the Owner or the Constructors Performance Evaluation System (CPES) Final Rating, showing at least a "Satisfactory" rating.
4. Net Financial Contracting Capacity (NFCC): (**ANNEX "C"**)

Computation of NFCC must be at least equal to the ABC to be bid, calculated as follows;

$$\text{NFCC} = [(\text{Current assets minus current liabilities}) \times 15] \text{ minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid.}$$

or a committed Line of Credit from Universal or Commercial Bank, in lieu of its NFCC Computation. The committed Line of Credit must be at least equal to ten percent (10%) of the ABC to be bid.

5. Photocopy of PCAB License, with size range of at least Medium A in Air-conditioning and Refrigeration Works.

B. TECHNICAL COMPONENT:

1. Bid Security:

- Notarized Bid Securing Declaration (**ANNEX "D"**); or
- Cash or Manager's Check / Cashier's check issued by a Universal or Commercial Bank in the amount of not less than 2% of the ABC; or
- Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank in the amount of not less than 2% of the ABC; or
- Surety Bond, callable upon demand, issued by a private insurance company with attached Certification issued by the Office of the Insurance Commission that said insurance company is authorized to issue such surety, in the amount of not less than 5% of the ABC.

2. Sections VI – Specifications of the Bidding Documents, signed on each and every page by the bidder's authorized representative;

3. Notarized Omnibus Sworn Statement (**ANNEX "E"**) with attached;

- a. For Corporations, the duly notarized Secretary's Certificate; or
- b. For Sole Proprietorship, the notarized Special Power of Attorney.

II. SECOND ENVELOPE: FINANCIAL COMPONENT OF THE BID (BID PROPOSAL FORMS)

1. Financial Bid Form (Section VIII of the Bidding Documents) with the Bill of Quantities.

Note:

Each Bidder shall submit One (1) original copy, marked as "ORIGINAL" and two (2) duplicate copies, marked as Copy "1" and Copy "2" of the Eligibility documents and the Financial Bid Proposal signed by the bidder and/or the authorized representative. (Annex "F")

LIST OF ALL ON-GOING GOVERNMENT & PRIVATE CONTRACTS INCLUDING CONTRACTS AWARDED BUT NOT YET STARTED

Business Name: _____

Business Address: _____

Name of Project / Project Cost	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Date Awarded b. Date Started c. Date Completion	% of Accomplishment		Value of Outstanding Works / Undelivered Portion
			Description	%		Planned	Actual	
Government:								
Private:								
Submitted by:	(Printed Name & Signature)							
Designation:								
Date:								

SINGLE LARGEST COMPLETED CONTRACT

WHICH IS SIMILAR TO THE CONTRACT TO BE BID

Business Name:

Business Address:

Name of Contract	a. Owner' Name b. Address c. Telephone Nos.	Nature of Item/Service	a. Amount of Award b. Amount at Completion c. Duration	a. Date Awarded b. Contract Effectivity c. Date Completed

Note: This statement shall be supported with:

1. Contract
2. Certificate of Final Acceptance issued by the owner or the Constructors Performance Evaluation System (CPES)
Final rating showing at least a "Satisfactory" rating.

Note: The Single Largest Completed Contract shall be completed within the last three (3) years from the date of submission and receipt of bids, that is similar to the contract to be bid, the amount of which shall be at least fifty percent (50%) of the ABC.

Submitted by:

(Printed Name & Signature)

Designation:

Date:

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PHILIPPINE INTERNATIONAL CONVENTION CENTER

Name of the Project: *Supply of Labor and Materials for the Installation of Split-type Packaged Air-conditioners at the Amorsolo Kitchen, Documents Distribution Counter and Inner Rooms*

FINANCIAL DOCUMENTS FOR ELIGIBILITY CHECK

A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached Income Tax Return and Audited Financial Statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

		Year 20
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	
7.	Value of all outstanding or uncompleted portions of the project under ongoing contracts, including awarded contracts yet to be started coinciding with contract to be bid.	

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

NFCC = [(Current assets minus current liabilities) (15)] minus value of all outstanding or uncompleted portions of the project under ongoing contracts, including awarded contracts yet to be started coinciding with contract to be bid.

NFCC = P _____

The values of the bidder's current assets and current liabilities shall be based on the data submitted to the BIR.

or

A committed Line of Credit, in an amount to at least ten percent (10%) of the ABC, issued by a Universal of Commercial Bank.

Submitted by:

Name of Supplier / Distributor / Manufacturer

Signature of Authorized Representative
Date: _____

Note:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.

BID SECURING DECLARATION FORM

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

X-----X

BID SECURING DECLARATION
Invitation to Bid: *[Insert Reference number]*

To: *[Insert name and address of the Procuring Entity]*

I/We¹, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - (a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - (b) I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right;
 - (c) I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

¹ Select one and delete the other. Adopt the same instruction for similar terms throughout the document.

[Insert NAME OF BIDDER'S AUTHORIZED REPRESENTATIVE]

[Insert Signatory's Legal Capacity]
Affiant

SUBSCRIBED AND SWORN to before me this ___ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ___ at _____.

Witness my hand and seal this ___ day of *[month]* *[year]*.

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ *[date issued]*, *[place issued]*

IBP No. _____ *[date issued]*, *[place issued]*

Doc. No. _____
Page No. _____
Book No. _____
Series of _____

ANNEX "E"

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, *[Name of Affiant]*, of legal age, *[Civil Status]*, *[Nationality]*, and residing at *[Address of Affiant]*, after having been duly sworn in accordance with law, do hereby depose and state that:

1. **Select one, delete the other:**

If a sole proprietorship: I am the sole proprietor or authorized representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of *[Name of Bidder]* with office address at *[address of Bidder]*;

2. **Select one, delete the other:**

If a sole proprietorship: As the owner and sole proprietor, or authorized representative of *[Name of Bidder]*, I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached duly notarized *Special Power of Attorney*;

If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for *[Name of the Project]* of the *[Name of the Procuring Entity]*, as shown in the attached *[state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)]*;

3. *[Name of Bidder]* is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. *[Name of Bidder]* is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. **Select one, delete the rest:**

If a sole proprietorship: The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a partnership or cooperative: None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

If a corporation or joint venture: None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:
 - a) Carefully examine all of the Bidding Documents;
 - b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
 - c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ___ day of [month] [year] at [place of execution], Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her [insert type of government identification card used], with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ___ at _____.

Witness my hand and seal this ___ day of [month] [year].

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ [date issued], [place issued]

IBP No. _____ [date issued], [place issued]

Doc. No. _____

Page No. _____

Book No. _____

Series of _____