



Republic of the Philippines
Department of Agriculture
BUREAU OF FISHERIES AND AQUATIC RESOURCES
BIDS AND AWARDS COMMITTEE OFFICE

2/F Fisheries Building Complex, BPI Compound, Brgy. Vasra, Visayas Ave., Quezon City
| www.bfar.da.gov.ph | bac.eps@bfar.da.gov.ph | 0999 886 5159

NOTICE OF AWARD

JPACER CONSTRUCTION SERVICES

Block 28/ Block 29 Lambak Avenue, San Juan,
Taytay, Rizal

Project: Bid Reference No. 2024-17 SUPPLY, DELIVERY AND INSTALLATION OF DUCTING, ERV UNITS AND AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING

Dear Sir/ Madame:

Greetings!

We are pleased to notify you that the contract for **2024-17 SUPPLY, DELIVERY AND INSTALLATION OF DUCTING, ERV UNITS AND AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING** we of the above Project is hereby awarded to your firm as the Single Calculated Responsive Bidder (SCRB) and compliant with the Technical Specifications required by the end-user at Contract Price specified in the attached summary.

You are therefore required, within ten (10) days from the receipt of this Notice of Award, to formally enter into contract with us, and to submit the *Performance Security* in the form and the amount stipulated in the Instructions to Bidders.

Failure to enter into the said contract or provide the Performance Security shall constitute a sufficient ground for cancellation of this award and forfeiture of your Bid Security.

Very truly yours,

ATTY. DEMOSTHENES R. ESCOTO
Head of Procuring Entity
BFAR National Director

[Handwritten initials and signatures]

I acknowledge receipt of this NOTICE TO PROCEED on the date indicated below:

Signature of Bidder's Authorized Representative: *[Signature]*

Name of Bidder's Authorized Representative: *Janet E. Rico Leonardo*

Date: *March 25, 2024*



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ANNEX TO NOTICE OF AWARD

**SUMMARY OF LOTS TO BE AWARDED TO:
 JPACER CONSTRUCTION SERVICES**

BID REFERENCE NO.: 2024-17 SUPPLY, DELIVERY AND INSTALLATION OF DUCTING, ERV UNITS AND AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING

PR No.	Lot no.	DESCRIPTION	ABC	CONTRACT PRICE
24-02-113	1	SUPPLY, DELIVERY AND INSTALLATION OF DUCTING, ERV UNITS AND AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING	Php 99,984,274.56	Php 99,964,473.94
		TOTAL		Php 99,964,473.94

DESCRIPTION			Statement of Compliance
DESCRIPTION	Quantity	Unit	COMPLY
SUPPLY, DELIVERY AND INSTALLATION OF DUCTING, ERV UNITS AND AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING	1	Lot	
I. Mobilization/Demobilization	1	lot	
Sub-Total of I			
II. Supply, Fabrication and Installation of Ducting for Kitchen Fan, Fresh Air Fan and Exhaust Fan			
A. Supply, Fabrication and Installation of Ducting for Kitchen Fan (Black Iron Materials)	1	lot	
B. Supply and Installation of Ducting for Fresh Air Fan (Galvanized Iron Materials)	1	lot	
C. Supply and Installation of Ducting for Exhaust Fan (Galvanized Iron Materials)	1	lot	

Sub-Total of II		
III. Supply, Fabrication, Delivery and Installation of ERV Ducting and ERV Units for BFAR Laboratory Building		
A. Supply, Fabrication and Installation of Energy Recovery Ventilation Ducting	1	lot
B. Supply, Delivery and Installation of Energy Recovery Ventilation (ERV) Units	12	units
Sub-Total of III		
IV. Supply, Delivery and Installation of Airconditioning Units for BFAR Laboratory Building		
A. Charging of Refrigerant R32 and R410A	1	lot
B. Supply, Delivery and Installation of Airconditioning Units	1	lot
Sub-Total of IV		
-		
*Please See Attached Plan		
TOTAL		

TERMS OF REFERENCE	Statement of Compliance
<p>I. SCOPE OF WORKS</p> <p>The Supply, Delivery and Installation of Ducting, ERV, Fans and Airconditioning Units for BFAR Laboratory Building shall include the furnishing materials, tools, scaffolding, labor, supervision, and other services required for roughing-ins/fittings and parts necessary for the operation of the mechanical system.</p> <p>II. SUPPLY, FABRICATION, AND INSTALLATION OF DUCTING FOR KITCHEN FAN, FRESH AIR FAN AND EXHAUST FAN</p> <p>A. GENERAL EQUIPMENT SPECIFICATIONS</p> <ol style="list-style-type: none"> 1. Ducting for Kitchen Fan (Black Iron Material) <ol style="list-style-type: none"> a. 250mm x 250mm b. 350mm x 300mm c. 600mm x 300mm 2. Ducting for Fresh Air Fan (Galvanized Iron Material) <ol style="list-style-type: none"> a. 300mm x 200mm 	COMPLY



- b. 350mm x 300mm
- c. 350mm x 250mm
- d. 450mm x 200mm
- e. 550mm x 200mm

3. Ducting for Exhaust fan (Galvanized Iron Material)

- a. 350mm x 300mm
- b. 300mm x 300mm
- c. 300mm x 200mm
- d. 350mm x 550mm
- e. 250mm x 250mm
- f. 250mm x 500mm
- g. 200mm x 550mm
- h. 150mm x 450mm
- i. 450mm x 200mm
- j. 500mm x 300mm
- k. 100mm diameter

B. MATERIALS AND MANUFACTURERS

All materials shall be new, best of their respective grades, and as specified hereafter. Use the same brand of manufacturer throughout for each class of material or equipment.

C. REGISTERS, GRILLS AND DIFFUSERS

1. Provide supply, exhaust and return air devices, of materials, sizes and approximate locations indicated and connect to ductwork in approved manner. Submit exact dimensions and locations for approval before duct connections are fabricated. Refer to the Architectural and Interiors drawings for exact locations for all registers, grilles, and diffusers.
2. Install and fasten per manufacturer's detailed drawings. Use gaskets to make airtight and join neatly with adjacent finish surfaces.

D. DUCTWORK

1. Provide sizes, runs and connection of ducts and adhere to drawings as closely as possible. Install at indicated heights or as permitted by the structure. Coordinate with other trades to establish the necessary space requirements for each trade. Fabricate ductwork in a workmanlike manner with airtight joints, smooth surface on the inside, and neatly finished on the outside. Conduct with curves and to minimize pressure loss in the ductwork.
2. Details of construction and materials not specified herein shall be in accordance with SMACNA and ASHRAE Guide recommendations and



as approved.

Taḡarrir tal-Modur ta' Mašinis ta' L-Industrija ta' Bfar

3. Unless otherwise indicated, make the inside radius of each curve and bend not less than the width of duct. Where square elbows are used, provide fixed double radius turning vanes. Construct, brace and support ducts and air chambers so they will not sag or vibrate when fans are operating.
4. Keep ductwork openings with sheet metal during construction to prevent injury. Take all possible precautions to keep interior of ducts, air intake chambers and fan housing free from dirt or dust. Provide fire stop material where required.

E. WALL AND FLOOR PENETRATIONS

1. Openings through walls and floors required for ductwork and piping will be provided by the General Contractor. Provide shop drawings to locate all penetrations. Obtain approval from the Architect in ample time to meet the building construction schedule. Ductwork shall have rectangular cross sections unless otherwise indicated.
2. Cutting of structural members will not be permitted without the approval of the Architect and Structural Engineer.
3. Seal around ducts and pipe penetrations to maintain the acoustical, thermal and fire ratings of the floors and walls.

F. PAINTING AND IDENTIFICATIONS

1. Painting of materials and equipment supplied and installed shall be the responsibility of the Contractor, including the supports and hangers.
2. All grilles, registers, diffusers, fan housings and factory assembled equipment shall have a prime coat at the factory and all damaged spots touched up after installation.

G. EQUIPMENT IDENTIFICATION

1. Label all equipment to indicate system number, destinations, with black plastic laminate labels in 1 in. high with ½ in. white letters. Submit sample for approval.

H. FINAL INSPECTION

1. Notify the Supervising Engineer when final inspection of each installation is to be performed.



2. Thoroughly clean all fixtures, materials and equipment remove all labels, adjust each for quiet operation, and deliver the entire system in a condition satisfactory to the Supervising Engineer.
3. In the event defects or deficiencies are found during the final inspection, final acceptance of the work will be after they have been corrected to the satisfaction of the Supervising Engineer.

III. SUPPLY, FABRICATION, DELIVERY, AND INSTALLATION OF ERV DUCTING AND ERV UNITS FOR BFAR LABORATORY BUILDING

A. TECHNICAL SPECIFICATIONS

1. Energy Recovery Ventilation Unit
 - a. Ceiling Mount Type, 250CMH, 125Pa, 230V, Single Phase, 60Hz, Direct Drive
 - b. Ceiling Mount Type, 500CMH, 125Pa, 230V, Single Phase, 60Hz, Direct Drive
 - c. Ceiling Mount Type, 800CMH, 125Pa, 230V, Single Phase, 60Hz, Direct Drive
2. Energy Recovery Ventilation Ducting
 - a. 150mm x 150mm
 - b. 200mm x 150mm
 - c. 250mm x 150mm
 - d. 300mm x 150mm
 - e. 300mm x 200mm

B. MATERIALS AND MANUFACTURERS

All materials shall be new, best of their respective grades, and as specified hereafter. Use the same brand of manufacturer throughout for each class of material or equipment.

C. REGISTERS, GRILLS AND DIFFUSERS

1. Provide supply, exhaust and return air devices, of materials, sizes and approximate locations indicated and connect to ductwork in approved manner. Submit exact dimensions and locations for approval before duct connections are fabricated. Refer to the Architectural and Interiors drawings for exact locations for all registers, grilles, and diffusers.
2. Install and fasten per manufacturer's detailed drawings. Use gaskets to make airtight and join neatly with adjacent finish surfaces.

D. DUCTWORK

1. Provide sizes, runs and connection of ducts and adhere to drawings as closely as possible. Install at indicated heights or



as permitted by the structure. Coordinate with other trades to establish the necessary space requirements for each trade. Fabricate ductwork in a workmanlike manner with airtight joints, smooth surface on the inside, and neatly finished on the outside. Conduct with curves and to minimize pressure loss in the ductwork.

2. Details of construction and materials not specified herein shall be in accordance with SMACNA and ASHRAE Guide recommendations and as approved.
3. Unless otherwise indicated, make the inside radius of each curve and bend not less than the width of duct. Where square elbows are used, provide fixed double radius turning vanes. Construct, brace and support ducts and air chambers so they will not sag or vibrate when fans are operating.
4. Keep ductwork openings with sheet metal during construction to prevent injury. Take all possible precautions to keep interior of ducts, air intake chambers and fan housing free from dirt or dust. Provide fire stop material where required.

E. WALL AND FLOOR PENETRATIONS

1. Openings through walls and floors required for ductwork and piping will be provided by the General Contractor. Provide shop drawings to locate all penetrations. Obtain approval from the Architect in ample time to meet the building construction schedule. Ductwork shall have rectangular cross sections unless otherwise indicated.
2. Cutting of structural members will not be permitted without the approval of the Architect and Structural Engineer.
3. Seal around ducts and pipe penetrations to maintain the acoustical, thermal and fire ratings of the floors and walls.

F. PAINTING AND IDENTIFICATIONS

1. Painting of materials and equipment supplied and installed shall be the responsibility of the Contractor, including the supports and hangers.
2. All grilles, registers, diffusers, fan housings and factory assembled equipment shall have a prime coat at the factory and all damaged spots touched up after installation.

G. EQUIPMENT IDENTIFICATION

1. Label all equipment to indicate system number, destinations,



with black plastic laminate labels in 1 in. high with ½ in. white letters. Submit sample for approval.

*Tagapangangayod ng Malinis at
Mangagawang Katatagan*

2. All valves except check valves shall be identified with not less than 2 in. diameter brass tags secured to valve shall be permanently stamped to identify valve by number and valve function.

H. FINAL INSPECTION

1. Notify the Supervising Engineer when final inspection of each installation is to be performed.
2. Thoroughly clean all fixtures, materials and equipment remove all labels, adjust each for quiet operation, and deliver the entire system in a condition satisfactory to the Supervising Engineer.
3. In the event defects or deficiencies are found during the final inspection, final acceptance of the work will be after they have been corrected to the satisfaction of the Supervising Engineer.

IV. SUPPLY, DELIVERY, AND INSTALLATION OF AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING

A. TECHNICAL SPECIFICATIONS

1. Indoor Unit
 - a. Wall Mounted, Inverter, 1.0 Hp, 1Phase/ 220V/ 60Hz
 - b. Ceiling Cassette, Inverter, 2.0 Hp, 1Phase/ 220V/ 60Hz
 - c. Wall Mounted Free-match, 1.0 Hp, 1Phase/ 220V/ 60Hz
 - d. Wall Mounted Free-match, 1.5 Hp, 1Phase/ 220V/ 60Hz
 - e. Cassette Free-match, 1.0 Hp, 1Phase/220V/60Hz
 - f. Cassette Free-match, 1.5 Hp, 1Phase/ 220V/ 60Hz
2. Outdoor Unit
 - a. Wall Mounted, Inverter, 1.0 Hp, 1Phase/ 220V/ 60Hz
 - b. Unmatch, Inverter, 2.0HP, 1Phase/ 220V/ 60Hz/ panel (Small Size)
 - c. Free Match, 2.0HP, 1Phase/ 220V/ 60Hz
 - d. Free Match, 3.0HP, 1Phase/ 220V/ 60Hz
 - e. Free Match, 3.5HP, 1Phase/ 220V/ 60Hz
 - f. Free Match, 4.0HP, 1Phase/ 220V/ 60Hz

B. MATERIALS AND MANUFACTURERS

All materials shall be new, best of their respective grades, and as specified hereafter. Use the same brand of manufacturer



throughout for each class of material or equipment.

C. MULTI-SPLIT AIR-CONDITIONING SYSTEMS

Unit shall be air-cooled multi-split type air-conditioner consisting of one (1) outdoor unit and multiple indoor units. Different type of indoor units connected in one (1) outdoor unit. The indoor units (FCU) shall be designed to be installed as ceiling cassette (multi-flow) type.

1. INDOOR UNIT (FAN COIL UNIT, FCU)

The evaporator shall have cross fin type coil and therefore a dual suction multi-blade fan to operate at a low noise level and required static pressures. The fan motor shall be equipped with an over-current relay for safe operation. Vibration isolators of spring type shall be installed with the unit.

2. OUTDOOR UNIT (AIR COOLED CONDENSING UNIT, ACCU)

The compressor shall be compact and hermetically sealed. It shall be a rotary scroll compressor held by springs in the casing while a rubber vibration isolator is installed outside. A set of compressors shall consist of a base compressor/s and inverted compressor/s or according to the manufacturer. The unit shall be equipped with a complete set of safety devices such as crankcase heater, over-current relay, and compressor thermal protector encased in the motor coil, etc. to ensure a long life and trouble-free operation.

The condenser shall have cross fin type coil and a direct drive propeller fan drawing air from both sides and rear while discharging upwards. The fan motor shall be of the waterproof induction type equipped with thermal protector. Bearings shall be non-lubricant type.

D. WALL AND FLOOR PENETRATIONS

1. Openings through walls and floors required for piping will be provided by the General Contractor. Provide shop drawings to locate all penetrations. Obtain approval from the Supervising Engineer in ample time to meet the building construction schedule.
2. Cutting of structural members will not be permitted without the approval of the Architect and Structural Engineer.
3. Seal around pipe penetrations to maintain the acoustical, thermal and fire ratings of the floors and walls.

E. PAINTING AND IDENTIFICATIONS

1. Painting of materials and equipment supplied and installed shall be



the responsibility of the Contractor, including the supports and hangers.

*Tagapangalagayod ng Malinis at
Magsasaysay, Central*

F. EQUIPMENT IDENTIFICATION

1. Label all equipment to indicate system number, destinations, with black plastic laminate labels in 1 in. high with ½ in. white letters. Submit sample for approval.
2. All valves except check valves shall be identified with not less than 2 in. diameter brass tags secured to valve shall be permanently stamped to identify valve by number and valve function.

G. FINAL INSPECTION

1. Notify the Supervising Engineer when final inspection of each installation is to be performed.
2. Thoroughly clean all fixtures, materials and equipment remove all labels, adjust each for quiet operation, and deliver the entire system in a condition satisfactory to the Supervising Engineer.
3. In the event defects or deficiencies are found during the final inspection, final acceptance of the work will be after they have been corrected to the satisfaction of the Supervising Engineer.

V. MANPOWER REQUIREMENTS

Key Personnel	General Experience	Relevant Experience
Project Manager	7 years	5 years
Mechanical Engineer	5 years	3 years
Electrical Engineer	5 years	3 years
General Foreman	5 years	3 years

VI. DURATION

The winning bidder shall complete the work within **SIXTY (60)** calendar days upon receipt of Notice to Proceed (NTP).

VII. BIDDER / CONTRACTOR'S QUALIFICATION

1. The Bidder must have a PCAB License Category AA, Size Range Medium B, with Principal Classification General Building.



Item Number	Description	Quantity	Total	Delivered, Weeks/Months	Statement of Compliance
1	2024-17 SUPPLY, DELIVERY AND INSTALLATION OF DUCTING, ERV UNITS AND AIRCONDITIONING UNITS FOR BFAR LABORATORY BUILDING	1 Lot	1 Lot	Within SIXTY (60) calendar days upon receipt of the Notice to Proceed.	COMPLY
Place of Delivery: BFAR Fisheries Building Complex BPI Compd., Brgy. Vasra Visayas Ave., Quezon City					

nothing follows

