



SUPPLEMENTAL/BID BULLETIN NO. 2


TITLE: SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS AIRCONDITIONING UNITS AT CAAP-LAOAG INTERNATIONAL AIRPORT

DATE: OCTOBER 7, 2020

This Supplemental/Bid Bulletin is issued to all prospective bidders announcing amendments/ changes in the Bidding Documents, to wit:

- Revised Detailed Estimate
- Additional Scope of Work


Please be guided accordingly.


ATTY. RIZZA JOY S. VALLESTERO
Chairperson, Bids and Awards Committee
Laoag International Airport



**ADDITIONAL SCOPE OF WORKS FOR THE
SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS AIRCONDITIONING
UNITS AT CAAP-LAOAG INTERNATIONAL AIRPORT**

- 1. Dismantling/removal of existing airconditioning units.**
- 2. Application of anti-corrosion treatment to all outdoor airconditioning units.**


ARISTOTLE A. BASILIO
End-User

AGENCY : Department of Transportation and Communications
 : CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
PROJECT : **SUPPLY, DELIVERY AND INSTALLATION OF VARIOUS AIRCONDITIONING UNITS**
LOCATION : Laoag International Airport, Laoag City
SUBJECT : **DETAILED ESTIMATE/BILL OF MATERIALS**

I. SUMMARY OF MATERIALS

ITEM DESCRIPTION	QTY	UNIT	UNIT COST	AMOUNT
A. 1.0 HP (WALL MOUNTED)	3	units		
A.1. Location:				
one (1) unit @ 8F Ready room Distance between the indoor and outdoor unit (pipe connection):				
16 ft.				
A.2. Location:				
one (1) unit @ 2F Female quarter Distance between the indoor and outdoor unit (pipe connection):				
14 ft.				
A.3. Location:				
one (1) unit @ P/P Rest room Distance between the indoor and outdoor unit (pipe connection):				
13 ft.				
Note: Inclusive in the dismantling of existing units and installation of new units . Please see attached Scope of Works for complete specifications. With anti-corrosion treatment of outdoor heat exchanger fins.				
B. 2.0 HP (WALL MOUNTED)	7	units		
B.1. Location:				
two (2) units @ G/F Rest room Distance between the indoor and outdoor unit (pipe connection):				
ACU #1: 12 ft. ACU #2: 13 ft.				
B..2. Location:				
one (1) unit @ 2F ATS quarter Distance between the indoor and outdoor unit (pipe connection):				
14 ft.				
B.3. Location:				
one (1) unit @ 2F ANS quarter Distance between the indoor and outdoor unit (pipe connection):				
12 ft.				
B.4. Location:				
two (2) units @ P/P Office Distance between the indoor and outdoor unit (pipe connection):				
ACU #1: 22 ft. ACU #2: 26 ft.				
B.5. Location:				
One (1) unit @ P/P workshop Distance between the indoor and outdoor unit (pipe connection):				
16 ft.				

Note:

Inclusive in the dismantling of existing units and installation of new units .
 Please see attached Scope of Works for complete specifications.
 With anti-corrosion treatment of outdoor heat exchanger fins.

C. 2.5 HP (WALL MOUNTED)

12

C.1.

Location:

two (2) units @ G/F Conference room

Distance between the indoor and outdoor unit (pipe connection):

ACU #1: 20 ft. ACU #2: 19 ft.

C.2.

Location:

two (2) units @ 2F ANS Staff Office

Distance between the indoor and outdoor unit (pipe connection):

ACU #1: 12 ft. ACU #2: 14 ft.

C.3.

Location:

two (2) units @ 2F AFOC Office

Distance between the indoor and outdoor unit (pipe connection):

ACU #1: 12 ft. ACU #2: 14 ft.

C.4.

Location:

one (1) unit @ 2F Equipment workshop

Distance between the indoor and outdoor unit (pipe connection):

22 ft.

C.5.

Location:

one (1) unit @ 2F ATS FIC office

Distance between the indoor and outdoor unit (pipe connection):

16 ft.

C.6.

Location:

one (1) unit @ 2F ATS Staff office

Distance between the indoor and outdoor unit (pipe connection):

16 ft.

C..7

Location:

two (2) units @ DVOR/DME EQ. room

Distance between the indoor and outdoor unit (pipe connection):

ACU #1: 12 ft. ACU #2: 12 ft.

C.8.

Location:

one (1) unit @ ARFF office

Distance between the indoor and outdoor unit (pipe connection):

11 ft.

Note:

Inclusive in the dismantling of existing units and installation of new units .
 Please see attached Scope of Works for complete specifications.
 With anti-corrosion treatment of outdoor heat exchanger fins.

D. 2.5 HP (CEILING SUSPENDED TYPE)

4

units

D.1.

Location:

four (4) units @ Cab room

Distance between the indoor and outdoor unit (pipe connection):

ACU #1: 39 ft. ACU #3: 36 ft.

ACU #2: 40 ft. ACU #4: 35 ft.

Note: Inclusive in the dismantling of existing units and installation of new units . Please see attached Scope of Works for complete specifications. With anti-corrosion treatment of outdoor heat exchanger fins.				
E. 3.0 HP (FLOOR MOUNTED) E.1. Location: two (2) units @ 2F Equipment room Distance between the indoor and outdoor unit (pipe connection): ACU #1: 15 ft. ACU #2: 8 ft.	2	units		
Note: Inclusive in the dismantling of existing units and installation of new units . Please see attached Scope of Works for complete specifications. Application of anti-corrosion treatment of outdoor heat exchanger fins.				
F. 6.0 HP (FLOOR MOUNTED) F.1. Location: two (2) units @ 2F Equipment room Distance between the indoor and outdoor unit (pipe connection): ACU #1: 12 ft. ACU #2: 10 ft.	2	units		
Note: Inclusive in the dismantling of existing units and installation of new units . Please see attached Scope of Works for complete specifications. Application of anti-corrosion treatment of outdoor heat exchanger fins.				
TOTAL NO. OF AIRCON UNITS:	30		TOTAL COST OF LABOR AND MATERIALS:	
G. DELIVERY CHARGE OF AIR CONDITIONING UNITS	30		TOTAL COST OF DELIVERY:	
			TOTAL DIRECT COST :	

Specifications:

FOR WALL MOUNTED UNITS:

- *inverter, 230V/1 phase/60 Hz/R32 refrigerant*
- *Can withstands low and high voltages (150V - 264V operation range) with 3 years warranty for Printed Circuit Board (PCB), this allows to operate across a wide range of voltages.*
- *Auto fan speed*
 - *automatically adjusts the fan speed to high to rapidly reach the set temperature then reduces its speed once the temperature is achieved.*
- *Intelligent eye*
 - *automatically controls air conditioner operation according to human movement in a room. It adjusts the temperature by approximately 2 °C for energy savings.*
- *Program dry function*
 - *eliminate humidity while maintaining the most consistent temperature possible.*
- *Air purifying filter*
 - *the filter traps and absorbs dust and decomposes bacteria.*
- *Standby electricity savings*
 - *even when the air conditioner is not operating, it requires standby power. However, this function, the required standby power can be reduced.*
- *Wireless remote controller with backlight*
 - *this allows easy operation in the dark.*
- *Auto restart after power failure*
 - *the air conditioner memorises the settings for operation mode and automatically returns to them when power is restored after a power failure.*

- *Self diagnosis with digital display*
 - *malfunction codes are shown on the digital display panel of the wireless remote controller for fast and easy maintenance.*
- *indoor unit must have at least 25 dB(A) low level quiet operation*
- *Anti corrosion treatment of outdoor heat exchanger fins (hydrophilic gold anti corrosion fin coating)*
 - *the heat exchanger fins must be treated with anti corrosion to enhance the fins' resistance to acid rain and salt corrosion.*

FOR CEILING SUSPENDED TYPE UNITS

- *Inverter, 230V/1 phase/60 Hz/R32 refrigerant*
- *Indoor unit width dimension should not be longer than 1000mm.*
- *with navigation wired remote controller*
- *with maintenance time warning displayed on the remote controller.*
- *with drain pump kit includes a silver ion antibacterial agent that assists in preventing the growth of slime, bacteria and mould that cause smells and clogging.*
- *the heat exchanger fins must be applied/treated with anti corrosion to enhance the fins' resistance to acid rain and salt corrosion.*
- *Indoor unit must have at least 34 dB(A) low level quiet operation at 71CA indoor unit.*

FOR 3.0 HP FLOOR MOUNTED UNITS

- *non-inverter, 230V/single phase/60 Hz/R410A refrigerant*
- *with wireless remote controller*
- *with LED ASC light control panel*
- *adopted zinc coated heavy gauge galvanized steel, with exterior surfaces finished with a weather resistant polyester powder outdoor casing.*
- *the heat exchanger fins must be applied/treated with anti corrosion to enhance the fins' resistance to acid rain and salt corrosion.*

FOR 6.0 HP FLOOR MOUNTED UNITS

- *non-inverter, 230V/3 phase/60 Hz/R410A refrigerant*
- *with wireless remote controller*
- *with LED ASC light control panel*
- *adopted zinc coated heavy gauge galvanized steel, with exterior surfaces finished with a weather resistant polyester powder outdoor casing.*
- *the heat exchanger fins must be applied/treated with anti corrosion to enhance the fins' resistance to acid rain and salt corrosion.*

II. SCOPE OF WORK

1. Replace all existing units and its accessories and install new units as stated in the POW.
2. Clearing of unnecessary materials around the area after completion of the project.
3. All units must have at least five (5) years warranty on compressors and one (1) year on other parts.
4. Free maintenance check-up at least twice (2x) within the first year.
6. Airconditioning units shall be tested at least twenty four (24) hours in continuous operation prior for acceptance.
5. Delivery of units must be within thirty (30) days upon receiving the Notice to Proceed (NTP).
6. Completion of the project shall be sixty (60) calendar days.