

Lot II. SPECIFICATIONS FOR OFFICE EQUIPMENT

PROCUREMENT, DELIVERY, DISMANTLING AND INSTALLATION OF THIRTY ONE (31) AIR CONDITIONING UNITS FOR THE OFFICE OF THE SOLICITOR GENERAL, MAKATI CITY

I. PRODUCT TYPE, QUANTITY AND SPECIFICATIONS

A. SIX (6) 7.5 TR DUCTED PACKAGE (VERTICAL) SPLIT TYPE AIR CONDITIONING UNITS SYSTEM:

SPECIFICATIONS		
Nominal Cooling capacity	Btu/hr kW	90000 26.38
Refrigerant		HCFC-22
Power Supply	V / ph / Hz	208-230 / 3 / 60
INDOOR UNITS		
Air Flow, L / M / H	CFM L / S	1530 / 1300 / 1660 723 / 862 / 1112
External Static Pressure	in W.G. Pa	0.65 162
Dimension W x H x D (unit)	mm	1200 x 485 x 825
Weight	Kg	80
Refrigerant Metering Device		TXV
Location		Indoor Unit
Air Filter (Standard)		Washable, Anti-Mold Pre-filter
External Finish		Painted Steel
OUTDOOR UNITS AIR COOLED		
Energy Efficiency Ratio (EER)	Btu/W-Hr	9.0
System Power Input	Watts	10100
System Current	A	29.5
Compressor Type		SCROLL
Dimension W x H x D	mm	1130 x 1450 x 465
Weight	Kg	175
PIPING		
Refrigerant Piping Connection		Welded
Size OD, Gas / Liquid	mm	28.6 / 15.8
Max. Pipe Length Horizontal	m	20
Max. Vertical Separation	m	10

B. TEN (10) 5.0 TR DUCTED PACKAGE (HORIZONTAL) SPLIT TYPE AIR CONDITIONING UNITS SYSTEM:

SPECIFICATIONS		
Nominal Cooling Capacity	Btu/hr kW	60000 17.58
Refrigerant		HCFC-22
Power Supply	V/ph/Hz	208-230 / 3 / 60
INDOOR UNITS		
Air Flow L / M / H,	CFM L / S,	1150 / 1300 / 1660 543 / 614 / 784
External Static Pressure	in W.G Pa	0.5 125
Dimension (W x H x D)	mm	637 x 1,188 x 762
Weight	Kg	123
Refrigerant Metering Device		ACCURATOR
Air Filter (Standard)		Washable, Anti-Mold Pre-filter
External Finish		Painted Steel
OUTDOOR UNITS AIR COOLED		
Energy Efficiency Ratio (EER)	Btu/W-Hr	10.5
System Power Input	Watts	5710
System Current	A	17.5
Compressor Type		SCROLL
Dimension W x H x D	mm	810x727x810
Weight	Kg	90
PIPING		
Refrigerant Piping Connection		Flare
Size OD, Gas / Liquid	mm	19.05 / 9.52
Max. Pipe Length Horizontal	m	20
Max. Vertical Separation	m	10

C. THREE (3) 3.0 TR FLOOR MOUNTED INVERTER SPLIT TYPE AIR CONDITIONING UNITS SYSTEM:

SPECIFICATIONS		
Nominal Cooling capacity	Btu/hr kW	36000 10.55
Refrigerant		R410A
Power Supply	V / ph / Hz	208-230 / 1 / 60
INDOOR UNITS		
Air Flow, L / M / H	CFM L / S	1050 / 1300 / 1450 496 / 614 / 685
External Static Pressure	in W.G. Pa	0.5 125
Dimension W x H x D (unit)	mm	550 x 350 x 1800

Weight	Kg	67
Refrigerant Metering Device		ACCURATOR
Location		Indoor Unit
Air Filter (Standard)		Washable, Anti-Mold Pre-filter
External Finish		Painted Steel

OUTDOOR UNITS AIR COOLED

Energy Efficiency Ratio (EER)	Btu/W-Hr	12.3
System Power Input	Watts	3100
System Current	A	16.2
Compressor Type		ROTARY
Dimension W x H x D	mm	1030 x 420 x 810
Weight	Kg	75

PIPING

Refrigerant Piping Connection		Flare
Size OD, Gas / Liquid	mm	15.88 / 9.52
Max. Pipe Length Horizontal	m	15
Max. Vertical Separation	m	5

D. SEVEN (7) 2.0 TR CEILING MOUNTED INVERTER SPLIT TYPE AIR CONDITIONING UNITS SYSTEM:

--	--	--

SPECIFICATIONS

Nominal Cooling Capacity	Btu/hr Kj/hr	25000 26375
Refrigerant		R410A
Power Supply	V / ph / Hz	208-230 / 1 / 60

INDOOR UNITS

Air Flow, L / M / H	CMH/CFM	2700 / 1589
Dimension W x H x D (unit)	mm	1145 x 755 x 330
Weight	Kg	30
Location		Indoor Unit
Air Filter (Standard)		Washable, Anti-Mold Pre-filter
External Finish		Painted Steel

OUTDOOR UNITS AIRCOOLED

Energy Efficiency Ratio (EER)	Btu/h-W	12.5
Power Consumption	Watts	2000
Running Current	A	10.9
Dimension W x H x D		810 x 810 x 727
Weight	Kg	89

PIPING

Refrigerant Piping Connection		Flare
Size OD, Gas/Liquid	mm	9.5 / 15.9
Max. Pipe Length Horizontal	m	25
Max. Vertical Separation	m	5

E. TWO (2) 3.0 TR CEILING MOUNTED INVERTER SPLIT TYPE AIR CONDITIONING UNITS SYSTEM:

SPECIFICATIONS		
Nominal Cooling Capacity	Btu/hr Kj/hr	38000 40000
Refrigerant		R410A
Power Supply	V / ph / Hz	208-230 / 1 / 60
INDOOR UNITS		
Air Flow, L / M / H	CFM L / S	1050 / 1300 / 1450 496 / 614 / 685
External Static Pressure	in W.G Pa	0.5 125
Dimension, W x H x D	mm	1360 x 755 x 330
Weight	Kg	35
Refrigerant Metering Device		ACCURATOR
Location		Indoor Unit
Air Filter (Standard)		Washable, Anti-Mold Pre-filter
External Finish		Painted Steel
OUTDOOR UNITS AIRCOOLED		
Energy Efficiency Ratio (EER)	Btu/h-W	12.3
Power Consumption	Watts	310
Running Current	A	16
Compressor Type		ROTARY
Dimension W x H x D	mm	1090 x 500 x 865
Weight	Kg	70
PIPING		
Refrigerant Piping Connection		Flare
Size OD, Gas/Liquid	mm	15.88 / 9.52
Max. Pipe Length Horizontal	m	30
Max. Vertical Separation	m	5

F. THREE (3) 1.0 HP WINDOW TYPE INVERTER AIR CONDITIONING UNITS SYSTEM:

SPECIFICATIONS		
Cooling Capacity	Kw Kj / hr	9450 9970
Heating Capacity	Kw Kj / hr	4.3 (1.4~4.7) 15700 (5190~16800)
Dehumidifying Capacity	I / h	2.8
Running Current	A	5.7 (max 6.9)
Power Consumption	W	740
Energy Efficiency Ratio (EER)	Kw / Kw	13.5
Power Supply	-----	220-240 / 60 / 1
Unit Dimension W x H x D	mm	560 x 670 x 400
Installation Dimension	mm	700 x 478
Product Weight	Kg	47
Refrigerant		R410A / R32

II. APPROVED BUDGET FOR THE CONTRACT

Four Million Sixty-Four Thousand Six Hundred Five Pesos (PHP 4,064,605.00) inclusive of all applicable government taxes and charges.

III. QUALIFICATION OF THE CONTRACTOR

Must have been in the business of supplying, delivering, installing air conditioning units and providing its repair and preventive maintenance for at least five (5) years.

Must present a Client Satisfaction Rating from at least three (3) government agencies or private corporations, with whom the contractor has a past or ongoing contract similar to this budget

Must be based in and have a service center within Metro Manila

IV. SUPPLY, DELIVERY, DISMANTLING, HAULING AND INSTALLATION SCHEDULE

Agrees to supply, deliver, dismantle and install Thirty One (31) Air conditioning Units for the OSG Building and extension office within a period of Ninety (90) calendar days from receipt of Notice to Proceed (NTP), which period shall already include the time required to dismantle and haul the existing air conditioning units to be replaced, and the delivery and installation of the new air conditioning units.

V. SCOPE OF SERVICES

A. DOCUMENTATIONS

1. Agrees to process and submit to the concerned government agencies the required documents needed, if any, in the dismantling, hauling, delivery, installation and operation of the air conditioning units and pay the necessary fees on its own account.
2. Agrees to issue a one (1) year Certificate of Comprehensive Warranty on technical support, provision of services parts replacement/repair and preventive maintenance check-up.
3. Agrees to provide Operation and Maintenance Manual, Control Diagrams, Manufacturer's Printed Data including associated diagrams in clear concise English, drawings, technical data for the efficient operation and maintenance of the air conditioning units.

B. DISMANTLING, HAULING AND INSTALLATION WORK

1. Agrees to dismantle the existing air conditioning units, evaporator assembly, condensing unit assembly, feeder line, accessories and all other components, according to a pre-approved work plan
2. Agrees to haul all dismantled parts/components to the area designated by the Section Head of the Security Ground and Building Maintenance Section.
3. Agrees to supply and install Brand New air conditioning units, according to a pre-approved work plan.
4. Agrees to provide wiring and conduit works for main-feeder lines and sub-feeders from main circuit breaker to the equipment.
5. Agrees to render necessary masonry, repair/polishing work, grouting and cementing of concrete walls.
6. Agrees to supply and fix all support necessary for the installation of the air conditioning units, whether indoor or outdoor.

7. Agrees to provide safety barricades, enclosures, shielding, coverings, warning device, etc. upon the start of the project to ensure protection of the general public and damage to properties due to falling debris.
8. Agrees to clean up the whole area daily of accumulated refuse of debris caused by the work and upon completion of the project, the entire installation to the satisfaction of the OSG.

C. POST – INSTALLATION WORK

1. ORIENTATION / FAMILIARIZATION

Agrees to conduct a one-time in-house familiarization/orientation for the personnel of the Security Ground and Building Maintenance Section of the OSG and end users on the operation of the air conditioning units immediately after their installation.

2. POST-INSTALLATION SERVICE WARRANTY

1. Agrees to respond within four (4) working hours from the time a problem is reported.
2. Agrees to issue to client a diagnostic report of the problem within eight (8) working hours from the time it was reported.
3. Agrees to make available on-call technicians to provide technical support services during the warranty period.

3. WARRANTIES OF THE CONTRACTOR

1. Warrants to replace defective goods or parts if beyond repair, within three (3) calendar days from receipt of written notice from Procuring Entity.
2. Warrants that it shall conform strictly to the terms and conditions of this Terms of Reference.
3. Warrants that their manpower complements holds a license or possesses a certification from TESDA or other accredited institutions warranting technical skills qualified to do the service required to the satisfaction of the OSG.
4. Warrants that it shall employ well-behaved and honest employees with ID displayed conspicuously while working within the compound.
5. Warrants to pay all fees or charges payable to any instrumentality of government or to any other duly constituted authority relating to the use or operation of the installation.
6. Warrants that its personnel shall take all necessary precautions for the safety of all persons and properties at or near their area of work and shall comply with all the standard and established safety regulations, rules and practices.
7. Warrants that it shall coordinate with authorized and/or designated OSG personnel in the performance of their job.
8. Warrants a one (1) year warranty from date of acceptance that then installed air conditioning units shall have no defects, arising from design, materials, or workmanship.
9. Warrants that it shall be liable for loss, damage, or injury as may be due directly through the fault or negligence of its personnel; that it shall assume responsibility thereof and the OSG shall be specifically released from any responsibility arising there from.

D. TERMS OF PAYMENT

A. Schedule of Payment

1. Agrees to be paid based on a progressive billing scheme as follows:

Mobilization Fee, upon the commencement of the project	15% of the total contract price
Upon completion of the dismantling, hauling of the existing air conditioning units and the installation of the new units	75% of total contract price
During the retention period	10% of the total contract price

and subject to the required Expanded Withholding Tax (EWT) of two percent (2%) and Final Withholding Tax on VAT of five percent (5%).

2. Agrees that each payment shall be made within thirty (30) days from completion of Inspection and Acceptance Report and all other required documents.

Prepared by:

TECHNICAL WORKING GROUP FOR THE PROCUREMENT OF PROPERTY, PLANT & EQUIPMENT AND SEMI-EXPENDABLE PROPERTIES FOR FY 2018



JOSEPH L. GUEVARRA
Assistant Solicitor General
Chairperson

Members:



JUAN PAOLO R. GUERRERO
Associate Solicitor I



YVETE MARIEL I. SOLA
Associate Solicitor I



EDUARDO ALEJANDRO O. SANTOS
Director IV – CMS




ROSALINDA C. IBARRA
Director IV – HRMAS



NILO ODILON L. PALESTROQUE
Director IV - DMS



EDWIN M. BAGOS
SADAS – III



MARIJOIE V. CASTILLO
AO - II



MARIELLA M. GAMENG
AO - II



RODERICK L. MONES
ADMIN AIDE – II