

PROJECT: SUPPLY, DELIVERY, AND INSTALLATION OF AIR-CONDITIONING UNITS FOR VARIOUS DIVISIONS, BRANCHES AND SERVICE OFFICES (LOT 2 – LUZON DIVISION, BRANCHES & SO) (3RD ADVERTISEMENT)

QUERIES/CLARIFICATIONS RAISED DURING THE PRE-BID CONFERENCE:

No.	Query/Clarifications	TWG/BAC Reply
1	Are we going to use special brackets for the installation of split type? There are ready L-type brackets, but I read something about the angle bars.	No. Fabricated platforms made of angle bars will be installed.
2	Is it possible to use a different refrigerant, (R-410E), and yet the system is still inverter? This will give us a wider range of brands that can be offered that fit in our budget. Is multi-brand acceptable?	No. R-32 for Inverter and R-410a for Non Inverter will be accepted. Yes
3	Can we also specify EER/COP if the specs are by BTU or KJ per hour?	COP/EER can be computed based on the AC unit specifications. See computation below.
4	Is the room capacity already in-line with the required supply/units for the location?	Yes
5	Are we also to replace the copper tubes?	Yes

WRITTEN QUERIES:

No.	Query/Clarifications	TWG/BAC Reply
1	If we can use either R-32/R410A for refrigerants as long as it is inverter?	No
2	For the COP/EER if we can at least lessen the requirement specially for the window type?	No
3	What will be the need to use for Steel Sheet Gauge #16	For feeder line
4	Can R410a be considered in Light Commercial aircons such as floor mounted and ceiling mounted?	No
5	What is the formula deriving to get EER? Can we use EER test results from Meralco?	See computation of EER/COP below.
6	Are all locations in Open Ceiling Structure? If not, how or what will be the process in restoring its ceiling after re-piping of copper tubes?	AC units are replacements of existing so locations of piping are inside ceiling. Based on the scope of work item no. 25, “All areas affected during implementation of the project by chipping, dismantling works and other related activities shall be restored to original aesthetic condition at the owner’s satisfaction and to the sole account of the contractor.”
7	For ECB to Power Panel, what size of electrical wire is/are needed?	Refer to AC manufacturer’s recommendations
8	For ECB to Power Panel, will there be someone to assist with lay out of wiring?	SSS representative will only supervise and monitor the installation. All installation works including electrical works will be executed by contractor’s personnel.
9	Visiting hours for survey of locations and when?	Bidders can visit Mondays to Fridays during office hours. No particular schedule for site inspection.
10	Can Hauling be done together after delivery to each location?	Yes

COMPUTATIONS FOR THE DETERMINATION OF EER AND COP:

Cooling Capacity conversion:

$1\text{ kW} = 3600\text{ kJ/hr}$
 $1\text{ kW} = 3412\text{ BTU/hr}$

Computation of COP:

$$\text{COP} = \frac{\text{Nominal Cooling Capacity (kW)}}{\text{Power Input/Consumption (kW)}}$$

Computation of EER in BTU/hr – W:

$$\text{EER} = \frac{\text{Nominal Cooling Capacity (BTU/hr)}}{\text{Power Input/Consumption (W)}}$$

Computation of EER in kJ/hr – W:

$$\text{EER} = \frac{\text{Nominal Cooling Capacity (kJ/hr)}}{\text{Power Input/Consumption (W)}}$$

BLANK BID BREAKDOWN:

Soft – copy of blank bid breakdown in excel format will be issued in the bid bulletin. Bidders must input data on unprotected cells only.