

RFQ number PR4877728

The Embassy of the United States of America invites you to submit an offer for supply and install the following A/Cs:

A- Supplying and installing **30** high wall A/C split unit 3HP- 24,000 BTU (cool / heat)

B- Supplying and installing **10** Split pack wall Prestige (Ground) ACs 3HP- 24,000 BTU (cool / heat)

All offers should be according to the below specifications.

Supplying the A/C cost

Installation fees per A/C

Compressor support/ unit

Extra Freon Pipes fee/meter

Dismantling old units fees

(A/C must be delivered with its original/manufacturer components (internal/external units, compressor support, and refrigerant connection tubing)

If you would like to submit a quotation, you should thoroughly examine the above required specifications and submit your offer to

CairoContracts@state.gov



Description, Specifications

And

Work Statement

Date: 5/10/2015

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1- GENERAL REQUIREMENTS

1.1 General

This statement of work covers the work required at US government owned properties.

1.2 Summary of work

1. Dismantle the existing air conditioning unit and hand it out to the COR thru a transfer sheet.
2. Supply and install new Air condition split unit Carrier with Heat Pump or approved equal.
3. Unit's type: high wall, ceiling mounting or floor mounting decorative units.
4. New Freon piping with insulation shall be insulated.
5. Supply, install new power and control feeder for the new air conditioning unit.
6. Supply, install drain pan and drain piping in connection for the new air conditioning unit.

1.3 Contractor provided services

All materials shall be in accordance with the U.S. and local codes and as approved by the COR.

Work shall be governed by the latest edition of the International Building Code (IBC), and National Electric Code (NEC) and Manufacture recommendations. Work not in compliance with the IBC, NEC and Manufacture Recommendations shall be deemed unacceptable. Egyptian code is acceptable provided it is more stringent than the aforementioned codes.

1.4 Submittals

1.4.1 The contractor shall submit **as part of his bid, the following:**

1. Preliminary supply and installation schedule.
2. Technical data for all used materials and equipment.
3. Safety plan according to the SAFETY AND HEALTH REQUIREMENTS of the US Army Corps of Engineers-EM 385-1-1 which will be reviewed by the A/POSHO

1.4.2 After contract award the contractor shall submit the following;

1. A supply and installation schedule by working days on each job.
2. Sample for Electrical wire, control wire, copper piping, metal conduit and all used materials.

1.5 Alteration and coordination

Work under this contract involves the coordination of different activities during the entire project, including the preparation of drawings, diagrams and schedules from commencement to completion (and warranty periods).

Alterations and amendments: where applicable, requirements of contract documents apply to alteration and amendment works in same manner as for the work under this contract.

1.6 Coordination with existing work

Where new work is to connect to existing work, dimensions and elevations of existing work must be verified. Any discrepancy between drawings and/or specifications and existing conditions shall be referred to the COR for adjustment before work affected has been performed. In the event of the contractor's failure to give such notice, he will be held responsible for results of any discrepancies and costs of rectifying them. The submission of the bid will be conclusive evidence that the bidder has complied with all conditions related to the character, quality and quantity of work requirements to be performed. No claims for additional time or compensation due to variations between existing and conditions encountered during construction will be honored.

1.7 Work description:

A) Air conditioning split unit

The extent of the A/C work shall include the installation of the condensing unit (outdoor type) and evaporator unit (indoor type), the new Freon line piping and insulation and rapping with a silver tape.

It is also include the pulling of all the electrical connection power and control between the indoor and the outdoor units.

Pipes and conduits passing through masonry wall, voids shall be filled with latex mortar cast to shape of sleeve and provide flange/external collar type sleeve.

Wires shall be color coded build in metal conduits with total length of 3 meters for each unit and connection shall be in Metal Box and all A/C components shall be wired with grounding system.

The work includes leveling and plumbing the unit. Perform startup checks according to Manufacturer's written instructions.

All Freon copper piping shall be type M with total length of 3 meters for each unit. The run shall include oil or liquid traps.

Conceal the Freon piping and conduits in a Galvanized Steel metal cladding C-shape 0.8 mm thick trunking for Piping with dimensions 20cm*10cm and with total length of 3 meters for each unit. The trunking shall be Electrostatic painting with a suitable matching color.

Drain line shall be 3/4" PVC pipes (White) with 3m length, supported including all connections, P-trap to be connected to existing Drain riser.

Additional drain pan underneath the condenser unit shall be provided with Galvanized Steel 1 mm thick with 5cm more than dimensions of Condenser unit. The pan shall include a nozzle to drain the pan to the drain line.

B) Electric work:

- GENERAL

The extent of the electric work shall include the electric connection between the indoor unit and the outdoor unit.

Protective earth conductors are to be run with all circuits in accordance with the NEC 70 (article 250).

Wherever electrical services are crossing a fire zone / compartment, the contractor shall provide adequate fire barriers .

In the absence of any indication on the drawings or in the specifications, the installations are to be in accordance with NEC 70.

The Conductors for air conditioning unit shall be 6 mm² Cu-PVC wires and the control wiring shall be 7x1mm² Cu-PVC (or as per the manufacturer recommendation).

- PRODUCTS

All materials will be supplied and installed by the contractor.

- Wires and cables, products of (El Sewedy), or equal approved
- Conduits and boxes, products of (Allied) or equal approved

C) Removal and installation procedures:

Including but not limited to:

1. Shut down unit and lock out electrical power supply.
2. Recover and dispose of refrigerant charge per the EPA Guidelines.
3. Includes handling and rigging service.
4. Remove of existing units.
5. Install new split system to replace existing unit.
6. Install new refrigerant lines and Connect to existing supply and return ducts.
7. Insulate new suction line.
8. Connect electrical to existing unit disconnect.

9. Install new electrical and conduit from disconnect to terminal board where new unit.
10. Reconnect existing electrical and control wiring.
11. Install new condensate drain lines.
12. Location of indoor and outdoor units to be coordinated and approved by the COR.
13. Painting and touchup painting shall be provided to all installed equipments and materials.
14. Provide factory start-up and Warranty.
15. Provide a Certified Test on each unit.

D) STARTUP SERVICE:

Including but not limited to:

1. Engage a factory or authorized service representative to perform startup service.
2. Complete installation and startup checks according to manufacturer's written instructions and not limited to the following:
 - Inspection for visible damage to unit casing.
 - Inspection for visible damage to compressor, coils, and fans.
 - Verify that controls are connected and operable.
 - Verify that filters are installed.
 - Clean condenser coil and inspect for construction debris.
 - Remove packing.
 - Start unit according to manufacturer's written instructions.
 - Start refrigeration system.
 - Complete startup sheets and attach copy with Contractor's startup report.
 - Compressor refrigerant suction and hot-gas pipes.

1.8 Construction work procedure

- 1.8.1 The contractor shall be subject to and shall at all times conform to the Contracting Office Representative's (COR) requirements for the protection of the Complex, plants, equipment, and materials. Welding, burning, and cutting operations in existing areas are prohibited unless otherwise approved in advance by the COR.
- 1.8.2 Field supervision: At all times, during any performance of the work conducted by the contractor, the contractor shall have English speaking technically qualified representative on site. The COR shall have the right to determine whether the proposed representative

has sufficient technical and lingual capabilities, and the contractor shall immediately replace any individual not acceptable to the COR at no change in contract price.

- 1.8.3 Trash and unused materials removed under this contract shall be removed from site on a daily basis. After completion of all work, the contractor shall remove all remaining materials and any equipment that does not belong to the United States Government (USG), leaving the site neat and clean with all functions operating.

1.9 Special project procedures

- 1.9.1 All work shall be performed from 8:00 a.m. to 6:00 p.m., Saturday through Thursday except for the holidays identified in the holiday schedule attached, which are considered non-working days. Other hours may be approved by the COR with at least 24 hours advance written request.

- 1.9.2 Storage, loading, unloading, and trash removal shall be inside the premises of the property and not on the street or outside the property. Violation of this condition and results of this violation will be the complete responsibility of the contractor.

1.9.3 Existing Conditions

1. Before beginning site work, investigate and verify the existence and location of existing systems , underground utilities and other construction affecting the Work.
2. Acceptance of Conditions: Examine substrates, areas, and conditions, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.
3. The submission of the bid will be a conclusive evidence that the bidder has complied with all conditions related to the character, quality and quantity of work requirements to be performed. No claims for additional time or compensation due to variations between existing and conditions encountered during construction will be honored. Failure of the contractor to thoroughly inspect and identify defects, if any, shall not release him from the responsibility to guarantee the whole works (Existing to remain, and new works) for the period specified in the contract terms.

1.9.4 Protection of installed construction

Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

1.9.5 Correction of the work

1. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
2. Restore permanent facilities used during construction to their specified condition.

3. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.
4. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

1.10 Construction Schedule

The contractor shall submit detailed schedule showing each activity along with its duration, predecessors, and successors. A computerized schedule is preferred; however, a scaled bar chart may be acceptable.

1.11 Security Procedures

1.11.1 All of the contractor's personnel shall be subject to all the security procedures required for clearance of personnel working inside U.S. Embassy residential Compounds. These requirements shall include:

1. Submission of valid finger prints, addressed to the US Embassy and copy of the Egyptian ID, two week prior to the required date to access the site.
2. Access for trucks shall be granted on a 48 hours (two working days) advance notice showing: 1) Drivers name 2) Copy of driver's ID 3) Truck description and plate number, and 4) Date and time access required.
3. Access for daily labors can be given for three days, with a 48 hours advance notice showing the name of the persons, ID #, date and place of issue, and a copy of the ID. Labors for three days access will be given that for one time only.
4. All contractor personnel shall be subject to a daily check (in and out) by the government guard personnel.

1.11.2 Failure of the contractor to fulfill any security requirement in a timely manner shall not be constructed as a base for any time and money extension.

Delay or suspension of work due to the US government security regulations or requirements shall not be a base for claims.

1.12 Safety regulations

1.12.1 All of the contractor personal shall be subject to comply with the safety procedures implemented by the SAFETY AND HEALTH REQUIREMENTS of the US Army Corps of Engineers - EM 385-1-1

Please check the link below:

<http://www.usace.army.mil/SafetyandOccupationalHealth/SafetyandHealthRequirementsManual.aspx>

And

http://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM_385-1-1_2008Sep_Consolidated_2011Aug.pdf