

STATEMENT OF WORK
Repair of York Air Cooled Screw Chillers
American Embassy Suva, Fiji

1.0 **INTRODUCTION.** This is a firm fixed price contract for onsite service support at American Embassy Suva. All proposal packages must be accompanied with a work plan and projected site visit dates for all listed tasks within this work statement. All scope of work must be completed no later than 12 noon local [Suva] time March 4th, 2016 to include after visit reports.

All bids are to be sent to: Contracting Officer, US Embassy Suva, 158 Princes Road or email to DenhamJL@state.gov and MosesEE@state.gov

System details and location are as follows:

US Embassy Suva, Fiji

York Chiller 1, Model#:YCIV0600PA50, Serial # RETM022998

York Chiller 2, Model#:YCIV0600PA50, Serial # RETM022999

2.0 **SCOPE OF WORK:** The intent of this work scope is to secure the required parts, materials and certified technicians to carry out urgent repair work on the York Air Cooled Screw Chillers. All materials will be contractor furnished unless otherwise stated within the work scope. Contractor must confirm with post that all previously ordered materials and equipment specific to this scope are onsite prior to site visit.

At a minimum the following work must be performed.

Chiller 1 Circuit 1:

- a) Schedule an outage with Post Facility Manager and perform repairs on Chiller 1, refrigeration circuit one (1) to removal of refrigerant, replacement of filter and dryers, replacement of oil, pulling a vacuum to 500 microns, and installation of new post provided refrigerant.
- b) Verify via pressure test and vacuum readings that there are no leaks in the system, recharge Chiller 1 refrigeration circuit one, and perform a complete operational system check on the repaired circuit.
- c) Upon completion, check system for acid. Oil samples should be pulled and sent for evaluation.
- d) Replace any bad oil with new post- supplied oil.
- e) Perform sub cooling and superheat checks to make sure units are within factory specifications.

Chiller 2 Circuit 1:

- a) Schedule an outage with Post Facility Manager and remove refrigerant from Chiller 2 refrigeration circuits one (1) and install new oil separator.
- b) Contractor shall provide all fittings and installation materials for Chiller 2 refrigeration circuit 1 in order to change oil separator and install new oil separator. Contractor shall remove refrigerant, pull a vacuum to 500 microns, and then recharge circuit with new refrigerant provided by post and check system operation.
- c) Verify via pressure test and vacuum readings that there are no leaks in the system, recharge circuit, and perform a complete operational system check on the repaired circuit.
- d) Upon completion, check system for acid. Oil samples should be pulled and sent for evaluation.
- e) Replace any bad oil with new post- supplied oil.
- f) Replace filters and dryers if necessary.
- g) Perform sub cooling and superheat checks to make sure units are within factory specifications.

Chiller 2 Circuit 2:

- a) Per the scheduled outage remove refrigerant from Chiller 2 refrigeration circuit two (2) and install new oil separator.
- b) Contractor shall provide all fittings and installation materials for Chiller 2 refrigeration circuit 2 in order to remove oil separator and install new oil separator. Contractor shall remove refrigerant, pull a vacuum to 500 microns, and then recharge circuit with new refrigerant provided by post and check system operation.
- c) Verify via pressure test and vacuum readings that there are no leaks in the system, recharge circuit, and perform a complete operational system check on the repaired circuit.
- d) Upon completion, check system for acid. Oil samples should be pulled and sent for evaluation.
- e) Replace any bad oil with new post- supplied oil.
- f) Replace filters and dryers if necessary.
- g) Perform sub cooling and superheat checks to make sure units are within factory specifications.

3.0 **WORK STANDARDS AND QUALIFICATIONS:** This Statement of Work requires the awarded contractor to provide a

technician qualified on York Air Cooled Screw Chillers with factory training/experience. The contractor shall furnish all tools, test equipment, required PPE, and properly supervise all site personnel.

4.0 **SECURITY REQUIREMENTS:** No security clearance is required. The contractor will be escorted whenever necessary.

5.0 **MATERIALS TO BE PROVIDED BY CONTRACTOR UNDER THIS SOW:**

- a) Oil Separator – 2 complete set.
- b) All associated copper pipe fittings for Chiller 2 – Refrigeration Circuit 1.
- c) All associated copper pipe fittings for Chiller 2 – Refrigeration Circuit 2.
- d) All associated copper pipe fittings and applicable copper to copper & copper to steel welding rods.
- e) All filter and acid removal cores.
- f) Vacuum gauge and Manifold – 1 each.
- g) Any other Special tools and equipment to meet the above scope of works.

6.0 **MATERIALS & LABOUR TO BE PROVIDED BY EMBASSY UNDER THIS SOW:**

- a) 134a Refrigerant.
- b) Refrigerant oil.
- c) Refrigerant recovery machine & cylinders.
- d) Vacuum pump.
- e) Nitrogen Gas and (oxy & acetylene) Gas welding equipment.
- f) Post will provide the assistance of Facilities HVAC technician in performance of all works above.

7.0 **COMMENCEMENT OF TRAVEL TO SITE AND WORK:** All site visits and scope work must be completed no later than May 31st, 2016. This includes subsequent paperwork and reporting. In conjunction with the work plan and price proposal provide a calendar of proposed visit dates, travel dates, noting any down days. Provide the performing technician's names and credentials if not already on file. The contractors work plan must indicate a full schedule and note the work days and travel days. The contractor shall under no circumstances incur any travel or other costs, or begin the travel to the site or work at site until a signed purchase order is issued and a cable granting country clearance is received. Once all needed material is onsite, visit dates will be coordinated between embassy personnel, contract COR and the contractor. The contractor will be asked to furnish the Post FM the traveling technicians' flight itinerary and security information. The contractor shall provide a travel schedule and work plan in conjunction with cost proposal.

8.0 **DISPOSAL OF MATERIALS REMOVED:** The embassy shall be responsible for the disposal of refrigerant oil, refrigerant and any trash created while performing this work statement. The contractor shall transport all materials to be disposed of from the point of removal to the designated disposal storage site, and shall ensure that all items removed through this work are disposed of properly.

9.0 **SAFETY:** Safety is the highest priority on this and all POST contracts. The contractor shall direct all of those under his charge to work safely. Regular safety meetings shall be held among on-site contractor personnel, and safety concerns shall be brought to the attention of the Post Safety and Health Officer (POSHO) and the COR or COTR.

10.0 **REQUIREMENTS AND DELIVERABLES:** All site visits and scope work must be completed no later than May 31st, 2016. This includes subsequent paperwork, and all final site visit reports. The final inspection report must summarize work accomplished under this work statement, outline site conditions upon work completion, note any remaining deficiencies, and/or safety concerns. Deliver the report electronically to James Alden at aldenjn@state.gov. The report format should follow the guidelines listed below:

1. Provide a one page Executive Summary noting SOW completion, equipment status at project completion, and the next projected site service date. Note any outstanding discrepancies that were not corrected under this site visit. Note whether or not all test results were within acceptable limits (i.e. oil analysis).
2. Provide both recommended and required follow up items accordingly. Provide photos as necessary.
3. Provide a section on test results.
4. Provide a section noting the training given, and the names of the site personnel that attended.
5. Provide all necessary Bill of Materials (BOMs) as outlined in the work requirements. Label each site specific BOM for

what it covers (suggested parts, required PPE, suggested retro-fit, etc.). Provide in each BOM all applicable material, component name, quantity, part number, retail price and suggested source.

11.0 ALLOWANCES FOR MISCELLANEOUS TIME REQUIREMENTS: The contractor's price proposal must allow for time delays that may be encountered in coordination of a planned outage. Including but not limited to delayed access to certain building spaces, meetings and report writing. No additional funds will be provided to compensate for additional time requirements or delays that could have been reasonably anticipated.

12.0 POINTS OF CONTACT: Post point of contact will be the Post Facility Manager, Mr. James Alden Email : AldenJN@state.gov, Ph: +679 3314466 Ext 8010, Fax: +679 3300081, Mb: +679 772-8607

END SOW