

**STATEMENT OF WORK
FOR
INSTALLATION SERVICES**

REPLACEMENT IRRIGATION PUMPS INSTALLATION

1.0 INTRODUCTION

- 1.1 The U.S. American Embassy is looking for an experienced company in air conditioning projects to perform the removal of the existing four (04) irrigation pumps and the installation of the new four replacements irrigation pumps to be done in the Raw Water Irrigation Pump Pit and the Clear Water Irrigation Pump Pit inside the Embassy Compound, located at Encalada Ave. Block 17 S/N.
- 1.1.1 The new four (04) irrigation pumps will be provided by the USA Embassy
- 1.1.2 The new four (04) irrigation pumps will be installed in the Raw Water Irrigation Pump Pit and the Clear Water Irrigation Pump Pit inside the Embassy Compound, and the existing four (04) irrigation pumps should be removed from these Mechanical Rooms and be located besides the Chancery Warehouse, for later auction.
- 1.1.3 The existing pumps are as follows:

PUMP	BRAND	MODEL	SERIAL	LOCATION
P1	Hidrostal	100-200-0-D500-OS-2R	2005059639	Raw Water Irrigation Pump Pit
P2	Hidrostal	100-200-0-D500-OS-2R	2005059561	Raw Water Irrigation Pump Pit
P3	Hidrostal	C1 1/2x2 1/2-11.5T	2002090919	Clear Water Irrigation Pump Pit
P4	Hidrostal	C1 1/2x2 1/2-11.5T	2003030173	Clear Water Irrigation Pump Pit

- 1.1.4 The Contractor will be in charge to disconnect the existing irrigation pumps from the water lines, control and electric powers lines, and transport them with a truck to a designated place besides the Embassy Warehouse, inside the Embassy Compound, located in Encalada Ave. Block 17.
- 1.1.5 The Contractor will also be in charge to place the new irrigation pumps on their location and connect them to the water lines, control and electric power lines. All materials provided by the Contractor, except the new pumps and listed materials provided by the US Embassy.
- 1.1.6 All existing concrete pads should be modified to accept the new pumps and should be aligned with the existing suction lines. Pumps should be properly anchored with Hilti bolts to the concrete pad.
- 1.1.7 The Embassy will bring the new irrigation pumps from Customs and leave them inside the Chancery Warehouse.
- 1.1.8 Prior to the installation of the new irrigation pumps, the Contractor must send a set of CAD drawing with the connections to the existing water, control and power lines. These drawings will be done in double line and should show all water lines, flexible connections, transitions, valves, etc in a professional manner and according with American standards. These drawings should show all mechanical, electrical and control details for approval by the US Embassy prior to the installation and any change or modification if it is required.

1.1.9 Contractor should check if any modification on piping is required to align the pump on both suction and discharge water lines axis. All piping materials and fittings, isolation valves, gauges, should be provided by the Contractor

1.1.10 The new Irrigation Pumps will be provided by the US Embassy and have the following features:

PUMP	BRAND	MODEL	ELECTRICAL	FLOW & TDH	LOCATION
P1	Weinman	5G-4A	15 HP 460/3/60	750 GPM @ 53 ft	Raw Water Irrigation Pump Pit
P2	Weinman	5G-4A	15 HP 460/3/60	750 GPM @ 53 ft	Raw Water Irrigation Pump Pit
P3	Weinman	1.5 GT	10 HP 460/3/60	90 GPM @ 175 ft	Clear Water Irrigation Pump Pit
P4	Weinman	1.5 GT	10 HP 460/3/60	90 GPM @ 175 ft	Clear Water Irrigation Pump Pit

All details for each pump are shown on attached document New Irrigation Pumps.xlsx.

1.1.11 The Embassy will provide:

- Water and electrical power for this work. Embassy can provide power on: 208, 460 Volts/3 phase/60 Hz in one single point where the Contractor will perform its work. Contractor must connect to this electrical point according to his requirements with electrical extension cords, reliable, good quality and in good conditions. The use of extensions in bad conditions or improper connections will not be allowed. Contractor must provide all equipment and materials.
- One safety switch for the unit and a junction box, wired, located @ 3 mt. from the equipment.

1.1.12 All regular construction phases of the work as assembling, welding, soldering, take-off measurements, and preparation work will be done during normal hours, Monday-Friday, in a working area assigned by the Embassy

1.1.13 Embassy will provide the facilities to the Contractor during normal working hours Monday-Friday, to obtain access to the Mechanical Rooms in order to take measurements required for the pre-construction process.

1.1.14 Basic definition of works include and are indicated and detailed on the Price Schedule Breakdown attachment:

- CAD drawings for the new irrigation pumps Installation
- Removal of the existing irrigation pumps
- Installation of the new irrigation pumps
- Water piping, control and power connections to the new irrigation pumps
- Alignment of the pumps
- Supports and seismic restraints
- As Builds CAD drawings
- Tests and operation logs

1.1.15 Water piping to be connected to the new water lines should be done in steel pipe ASTM A-53 Gr B, seamless, Sch 40.

1.1.16 Steel pipe fittings, material ASTM A-234 Gr. B, dimensions ASME B 16.39 standards.

1.1.17 Class 150 steel pipe flanges, material ASTM A-105, dimensions ANSI B 16.5 standards.

- 1.1.18 Cast iron, rising stem, class 150 gate valves, flanged ends for 2/12" and over.
- 1.1.19 Contractors must provide their own equipment and scaffolds.
- 1.1.20 Contractor must provide a complete Testing and Balance report for each pump, measure flow and total dynamic head, readings of the impeller shaft RPM with a tachometer etc, measure of motor fan amps on three phases, etc.
- 1.1.21 Contractor must follow all working safety regulations and provide their personnel with appropriate safety equipment like gloves, security shoes, ocular protection, earring protection, falling protection etc... A site meeting will be held to discuss safety issues prior to work commencing.
- 1.1.22 The Embassy is providing in the **Attachment 2 Safety Policy**
- 1.1.23 Working days: Monday thru Friday: 8 AM to 5 PM.
- 1.1.24 All works should be done in coordination with the COR.
- 1.1.25 Contractor must provide As Builds CAD drawings, at the end of the works.
- 1.1.26 Upon completion of each working day the area should be to be returned to clean condition with no dust, construction debris or stains in evidence and no excess paint dropping on floors, outlets or fixtures.
- 1.1.27 All retouching works should be included and the area should be kept clean during and at the end of each working days.
- 1.1.28 All damaged areas during the working process should be restored to its original conditions.
- 1.1.29 Contractor must remove and dispose all of construction debris daily.
- 1.1.30 After the installation of the new pumps are completed and accepted, the Contractor must send a set of As Builds CAD drawing These drawings will be done in double line and should show all water lines, flexible connections, transitions, valves, etc in a professional manner and according with American standards. These drawings should show all mechanical, electrical and control details.

1.2	The facility, US Embassy Chancery is located at Encalada Ave. Block 17 S/N. All inspections shall be requested through the Contracting Officer Representative [COR].
1.3	Work shall be completed as expeditiously as possible. The structure shall be occupied during the execution of this contract. Contractor shall coordinate with Contracting Officer for work phasing and job sequencing with work commencing and completing in each apartment unit in a sequential manner. Contractor to submit a phasing plan with construction schedule for review and approval prior to commencement of work at the site.

Contractor may be allowed to overlap phases upon exhibition of sufficient capability to execute the project simultaneously at multiple apartment units with the approval of the Contracting Officer [CO].

2.0 GENERAL REQUIREMENTS

- 2.1 The Contractor shall provide quantity surveyors, construction personnel, equipment, materials, tools and supervision as needed to complete the services that meet the technical requirements in

this Statement of Work [SOW]. It is expected that the Contractor shall partner closely with Embassy personnel.

- 2.2 The work shall be executed in a diligent manner in accordance with a negotiated firm fixed price and performance period. The period of performance for all Phases of the project shall be completed in no more than **3 weeks** from Contract Award and the Notice to Proceed.

2.3 The Contractor shall have limited access to or be admitted into any structure outside the areas designated for the project except with permission by the Embassy. The Contractor shall address the impact of the consequent disruption and provide for a continuing level of operation for continuous occupation of the residence during construction.

- 2.4 The Contractor shall be required to prepare and submit reports, bill of materials, product literature, drawings, specifications, quality control schedules, safety plan and construction costs. These documents shall provide the necessary interfaces, coordination, and communication between the Embassy and Contractor for the delivery of a completed project.

3.0 CONTRACT ADMINISTRATION

3.1 The Contractor shall not conduct any work that is beyond this Statement of Work and accompanying specifications unless directed in writing by the Contracting Officer [CO]. Any work done by the Contractor beyond this SOW and accompanying specifications without direction from the CO will be at the Contractor's own risk and at no cost to the Embassy.

3.2 The Contracting Officer shall provide a Notice to Proceed [NTP] to the Contractor. No work shall be initiated until the NTP is issued by the CO.

3.3 The Contracting Officer may designate more than one individual to serve as the Contracting Officer's Representative [COR]. The Contractor will be furnished evidence of COR appointments, including explicit authority delegated to each COR and their responsibilities.

3.4 The Embassy does not make representations or warranties of whatsoever kind or nature, either expressed or implied, as to the quality, level of completion, accuracy, extent of compliance with the standards, codes and requirements described or referred to in this SOW, or the extent of coordination between or among the documents provided to the Contractor.

3.5 The Embassy's review, approval, or acceptance of, nor payment for the services required under this contract shall be construed to operate as a waiver of any rights under this contract or any cause of action against the Contractor arising out of the performance of this contract.

3.6 The Embassy has the right to inspect and test all services called for by the contract, to the extent practicable at all times and places during the term of the contract. The Office of Overseas Buildings may perform quality assurance inspections [QAI] and tests during construction to confirm the work is installed according to the SOW.

3.7 The Contracting Officer has the authority to issue a temporary stop order during the execution of any particular phase of this SOW. This authority may be executed when the Embassy requires time for official functions, or is in possession of specific credible information indicating that the lives of Embassy personnel are immediately threatened and that the execution of the project will increase the Embassy's vulnerability. The Contractor shall promptly notify the CO that work has been stopped.

- 3.8 If any of the Contractor's services do not conform to the contract requirements, the COR may require the Contractor to perform the services again in conformity with the contract requirements. The Embassy may by contract or otherwise, perform the services and charge the Contractor any cost incurred by the Embassy that is directly related to the performance of such service or terminate the contract for default.
- 3.9 The Embassy has the right to terminate this contract of convenience at any time in whole, or from time to time, if the Contracting Officer determines it is in the interest of the Embassy.

4.0 GOVERNMENT MATERIAL (GM)

Pursuant to Contract Clause FAR 52-245-2, Government-Furnished Property (Short Form), the Government will furnish the following materials and equipment for the installation by the Contractor. The Government Material (GM) is stored at Embassy Warehouse. The contractor shall move, uncrate, assemble, and install the GM. GM shall be uncrated and inspected by the contractor in the presence of the Contracting Officer's Representative (COR) to determine any damaged or missing parts. The contractor shall be responsible for damage or loss occurring after this inspection. The contractor shall notify the COR fourteen days in advance of the date the GM is needed. Any GM not incorporated in the work shall be returned to the Government and placed in storage at Embassy Warehouse as directed by the COR.

- 4.1 Embassy will provide adequate quantities of materials stored at the Embassy Warehouse:

PUMP	BRAND	MODEL	ELECTRICAL	FLOW & TDH	LOCATION
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5.0 RESPONSIBILITY OF THE CONTRACTOR

- 5.1 The Contractor shall be responsible for the professional quality, technical accuracy, and the coordination of all construction and other services furnished under this contract. The Contractor shall, without additional compensation, correct or revise any errors or deficiencies in its construction and other services.
- 5.2 The Contractor shall identify a Project Site Manager who shall be responsible for the overall management of the project and shall represent the Contractor on the site during construction. The Project Site Manager shall be approved by the COR.
- 5.3 The Project Site Manager shall attend all project meetings, prepare Status Reports on the project and submit them to the COR. Status Reports shall contain meeting minutes, accomplishments, arising concerns and proposed solutions, any proposed changed orders, and any other pertinent information required to report the progress of performance.
- 5.4 The Contractor shall provide and submit to the COR **Daily Construction Reports** as shown on **Attachment 3**, indicating events, work accomplished, materials delivered etc.
- 5.5 All documentation produced for this project will become the ownership of the Embassy at the completion of this project.

- 5.6 The Contractor shall verify that all materials, equipment, and systems provide operational dependability. The Contractor assures the completed construction shall be easily maintained or replaced with readily available materials and services.
- 5.7 Any cost associated with services subcontracted by the Contractor shall be borne by and be the complete responsibility of the Contractor under the fixed price of this contract.
- 5.8 The Contractor is responsible for safety and shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety and similar matters. The Contractor shall promptly report all accidents resulting in lost time, disabling, or fatal injuries to the COR.
- 5.9 The Contractor shall be and remain liable to the Embassy in accordance with applicable law for all damages to the Embassy caused by the Contractor's negligent performance of any of the services furnished under this contract. The rights and remedies for the Embassy provided for under this contract are in addition to any other rights and remedies provided by law.

6.0 PRE-CONSTRUCTION REQUIREMENTS

- 6.1 The Contractor shall examine all the documents and visit the site to fully inform themselves of all the conditions and limitations applied to the work and submit a firm fixed price cost proposal for all the work. No subsequent cost allowance will be made to the Contractor for neglect of the existing conditions.
- 6.2 Provide a statement that the Contractor's company and all personnel are **experienced in Commercial HVAC installations** and work similar to type and scope required for the work.
- 6.3 The Contractor shall prepare and submit a Quality Control Schedule [QCS] and Project Safety Plan [PSP] to address the project. The QCS and PSP are intended to document the entire project from beginning to end.
- 6.4 Submit a copy of a Contractor's Installation Guarantee covering the work, labor and equipment for a period of ONE [1] year at no cost to the Embassy signed by the Contractor.
- 6.5 Submit a Bill of Materials [BOM], product literature, samples and standard specification submittals of all materials to be used in the project provided by the contractor. The BOM's shall list the equipment and materials in sufficient detail that a purchase order for the materials and equipment can be executed without further elaboration or specifications. These documents will be used by the Embassy to approve all equipment and materials.

7.0 CONSTRUCTION REQUIREMENTS

- 7.1 No construction shall begin until approvals of the Pre-Construction Submittals are accepted by the COR. Requests for approvals should be sent to the COR in the appropriate form as indicated on **Attachment 7 Shop Drawing/Material Approval Request**
- 7.2 The approval of the drawings and/or materials by the Contracting Officer shall not be construed as a complete check, but will indicate only that the general method of construction and detailing is satisfactory. Approval of such drawings and/or materials will not relieve the Contractor of the responsibility for any error which may exist as the Contractor shall be the responsible for the dimensions, design, quality, adequate connections, details and satisfactory construction of all work.
- 7.2 The Contractor shall be responsible for all required materials not provided by the Embassy,

equipment and personnel to manage, administer, and supervise the project. All workmanship shall be of good quality and performed in a skillful manner as determined by the COR.

- 7.3 All materials and equipment incorporated into the project shall be new unless noted otherwise. The Contractor shall transport and safeguard all materials and equipment required for construction.
- 7.4 Equipment and materials shall be carefully handled, properly stored, and adequately protected to prevent damage before and during installation, in accordance with the manufacturer's recommendations. Damaged or defective items shall be replaced. The contractor will be responsible for security of all materials and equipment.
- 7.5 Receipt Of Materials - Shipment of equipment, materials, and supplies shall be addressed to the Contractor - not the Embassy. The Contractor must be on hand to accept shipments; the Embassy will not accept shipments.
- 7.6 The Contractor will be provided with a storage and staging area as determined by the COR. The Contractor shall be responsible for restoring the area to its original condition at the completion of the work. The Contractor shall be responsible for repair of any damage incurred to buildings or pavement as a result of storage activities. The Contractor is responsible for obtaining any additional off compound storage areas as required.
- 7.7 The Contractor shall at all times keep the work area free from accumulation of waste materials. Upon completing construction, the Contractor shall remove all temporary facilities and leave the project site in a clean and orderly condition acceptable to the COR.
- 7.8 The Contractor shall perform the work at the site during the Embassy's normal workday and after hours, unless agreed upon with the COR.
- 7.9 The Contractor shall be responsible for connection of temporary utilities to existing utilities including water and power lines. All temporary connections to local water and power lines shall be coordinated with the COR. The Contractor shall pay all costs incurred in connecting, converting, and transferring the utilities to the work. The Contractor shall be responsible for making connections including providing back flow preventer devices on connections to domestic water lines, providing transformers, and for disconnections.
- 7.10 At the end of each work day, or notification of a temporary stop order, the Contractor shall lower and fixed all temporary work platforms and/or harnesses. Contractor shall notify the COR of the temporary barricade locations. Beginning the next workday, the contractor shall remove the temporary barricades before continuing the project.
- 7.12 Cleanup - The Contractor shall keep the work area, including storage areas, free from accumulations of waste materials on a daily basis and comply with all federal, state and local regulations pertaining to the storage, transport and disposal of wastes. The Contractor shall not use Embassy waste disposal facilities including garbage cans, trash piles or dumpsters.
- 7.13 Landscape Restoration - The surfaces of all unpaved areas disturbed by construction activities shall be sodded with an approved grass native to the sodded area as approved by the COR. These shall include areas which existing pavement is removed, areas where excavation takes place, and areas where existing sod is killed or compacted by construction activities. Landscape shrubs killed or damaged by construction activities shall be replaced with same species and size.

8.0 CRITERIA

- 8.1 The Contractor work shall in accordance with U.S. codes and standards. The COR will review and comment on the Contractor's submissions using the following codes and standards:

American Society for Testing & Materials,
 2003 International Building Code
 2003 International Mechanical Code
 2003 International Plumbing Code
 2002 National Electrical Code (NFPA)

Contractor shall provide specifications, samples and manufacturer's data sheets

Statement of Work for Construction Services

9.0 DELIVERABLE SCHEDULE

9.1 The Contractor shall commence work under this contract promptly, execute the work diligently, and achieve final completion and acceptance including final cleanup of the premises within the period specified.

9.2 Milestones:

Contractor Pre-Proposal Site Visit	April 12th, 2013
Proposal Submittance	April 17th, 2013
Pre-Construction Submittals	Within 2 weeks of NTP
	Installation & Tests
	Three weeks. And once the new irrigation pumps arrive to the Embassy Warehouse and once the Security record checks are completed.

9.3 Project Completion: Furnish one copy of maintenance and operating information, Contractor's one year workmanship guarantee and product literature of all items installed.

10.0 PROJECT SECURITY

10.1 The work to be performed under this contract requires that the Contractor, its employees and sub-contractors shall be cleared by Embassy Security and submit corporate, financial and personnel information for review by the Embassy. Information submitted by the Contractor will not be disclosed beyond the Embassy.

10.2 The Contractor shall submit this information including construction vehicle requirements within 10 days of the Notice to Proceed.

11.0 PAYMENTS

11.1 The Contractor shall provide a fixed priced lump sum proposal to the Contracting Officer, as indicated on **Attachment 4 Price Schedule Breakdown, with the logo, name, address, phone numbers and e-mail of the company and signed by the General Manager or legal representative**, as well as schedule of the works as indicated on **Attachment 5 Proposed Performance Chart** The Contractor may submit requests for progress payments at monthly intervals to cover the value of labor and materials completed to date, as indicated on **Attachment 6**. In making progress payments, there shall be retained 10% of the amount due until final completion.

11.2 The Contractor shall submit one copy of all payment invoices, with the appropriate backup documents to the COR. The COR will determine if the invoice is complete and proper as submitted. The COR also will determine if billed services have been satisfactorily performed and if expenses billed are correct. If it is determined that the amount billed is incorrect, the COR will within seven days, request the Contractor to submit a revised invoice.

11.3 The Contractor shall specifically identify his last invoice "Final Invoice." The Final invoice shall include the remaining payment claimed to be due under the basic contract and all modifications issued, if any. The final invoice shall also have the Contractor's Release of Claims Certificate attached.

END OF STATEMENT OF WORK