

STATEMENT OF WORK FOR PREVENTIVE MAINTENANCE SERVICE CONTRACT Water Treatment of Swimming pool

American Embassy at Jordan, Amman

Date 11/2016

1.0 INTRODUCTION

1.1 The United States Department of State (DOS) requires services at the unclassified clearance level, to provide water treatment maintenance services at the Embassy Compound, U.S. Embassy Amman.

1.2 The Facilities Management Office (FAC) has a requirement to obtain water treatment maintenance services to execute this work, **including logistics, customs, shipping, transportation, labor, water treatment chemicals, tools, water treatment testing kits/equipment, administrative and all associated management support functions.** The water treatment service contract will include but not limited to combinations of physical methods, chemical methods, equipment servicing and testing to control water-related problems such as corrosion, scaling, general deposits, and microbiological.

2.0 OBJECTIVES

2.1 The purpose of this scope of work is to define the requirements for the planning, procurement. And maintenance of the Embassy Swimming pool located in the Embassy compound.

The intent of this service contract is to reduce operating costs and establish a cost effective water treatment program to control water related problems.

All work shall be executed in accordance with the project SOW, approved water treatment chemicals, associated contract documents and be compliant with all applicable safety, equipment and building codes and standards.

2.2 The list of chemicals materials required for the swimming pool treatment is as follows:

Description
Calcium Chloride Solution 15%
Sodium Chloride Solution 10%
Muriatic Acid 30-32% (HCL)
Sodium Hypochlorite 10-12%
Tablet salt (Broxtten) >99.7
Delsachlor Tablet 90

3.0 SPECIFICATIONS

3.1 All equipment, chemicals, and testing procedures and kits shall be approved by the COR prior to use in the service contract.

3.2 The contractor will be responsible for submitting the manufacture specifications, MSDS sheets and equipment cut sheets for all equipment, chemicals (including chemical composition), and testing procedures in both English and Arabic languages.

3.3 The Swimming pool water shall be maintained with the following parameters

Parameters	Minimum	Ideal	Maximum
Free Chlorine (PPM)	1	2	3
PH level	7.2	7.5	7.8
Calcium Hardness	200	-	40
ORP(mv)	650	-	-
Alkalinity	80	-	120
Cyanuric Acid (ppm)	0	-	100
Bromine (ppm)	2	3	4

3.4 When all analytical results achieved in the ideal situation, the pool water must be clear and pure with crystal reflection. No green color or cloudy water accepted.

4.0 SCOPE OF WORK

4.1 The water treatment contractor shall provide both the required chemical products and necessary services to apply the chemicals, monitor their performance, and report the results. Reduce operating costs and establish a cost effective water treatment program to control water related problems such as corrosion, scaling, general deposits, and microbiological fouling to Embassy swimming pool.

4.2 The water treatment contractor shall provide a “support service water treatment” contract. The support service water treatment contract shall involve joint responsibilities between the embassy facility management staff and the water treatment vendor.

4.3 The support service water treatment program shall consist of the Embassy facility management staff conducting daily water treatment tests to swimming pool water system and emailing the results to the water treatment contractor on a weekly basis. The contractor will then be responsible for conducting a technical analysis of the weekly water treatment testing results from the embassy. The contractor will then respond to the embassy within 24 hours to direct the embassy facility management staff to make any changes to the chemical dosage if necessary.

4.4 The water treatment contractor shall visit the embassy twice a month basis (24 times a year) at 2 day consecutive intervals. The contractor shall be responsible for all logistics including but not limited to transportation and hotel reservations for their staff.

4.5 The water treatment contractor shall provide good chemicals and have a storage life expectancy of at least 1 year.

4.6 The water treatment contractor shall determine the dosage levels of chemicals and stay within the specified operating parameters under section 5.0.

4.7 The water treatment contractor shall establish minimum and maximum control ranges for each treatment chemical and avoid unnecessary high levels of chemicals to mitigate cost and adverse chemical reactions from improper high level chemical dosage.

4.8 The water treatment contractor shall do the following on their monthly visit:

- Inspect chemicals and shelf life (replace expired chemicals).
- Inspect chemical feeders.
- Inspect and verify water condition.
- Inspect and verify the control bleed offs.
- Ensure chemicals are stored in the proper locations based on the MSDS and manufacture guidelines.
- Ensure embassy facility management staffs are testing the water properly.
- Maintain water treatment records and test results.
- Ensure proper dosage of chemicals.
- Test system for proper pH, Chlorine Free, Calcium Hardness, Alkalinity, ORP, Cyanuric Acid and Bromine.
- Have all water systems tested by a certified laboratory for a complete analysis of water.
- Check inventory of the chemicals and replenish if necessary.

4.9 The water treatment contractor shall provide on an annual basis 2 days of training in both English and Arabic to perform the necessary water treatment tests, the control ranges for each treatment chemical, safe handling of equipment and chemicals, and new water treatment procedures/technologies.

4.9.1 The water treatment contractor on the monthly visit review the facility water treatment logs and the operating logs again to verify the chemicals are with design parameters.

4.9.2 The water treatment contractor shall discuss the water treatment conditions with the Facility Manager and operating engineers the conditions of the water and follow up with a written service report with 3 business days after the Bi-weekly... visit. The report shall be in English and contain the results of water treatment contractor's on-site tests, comment on the status of each system, and specific recommendations for action if necessary.

5.0 Submittals

5.1 Chemicals type and MSDS.

5.2 Test kit type.

5.3 Check list sheet showing all required water tests.

5.4 Ability for two visits per month.

5.5 Team chemist certification.

5.6 Able to deliver all chemicals to the site.

5.7 Filling the Acid and chlorine dosing tank each visit and report dosing pumps condition.

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