

BERMUDA LAND DEVELOPMENT COMPANY LIMITED

WATER AND WASTEWATER INFRASTRUCTURE PROGRAM

**Request for Qualifications
For
General Contracting Services**

Issued: **Friday, March 13th, 2020**

Submission Deadline: **Tuesday, March 24th, 2020 03:00:00 PM AST**

1. INTRODUCTION

The Bermuda Land Development Company Limited (BLDC) is requesting Statements of Qualification (SOQ) from applicants interested in providing General Contracting services for a BLDC major water, wastewater and flushing systems infrastructure program. Also included in the program are specialty construction services such as fusion welding of HDPE pipe connections, sea-bed pipe installations and wastewater treatment plant upgrades. The BLDC is seeking General Contractors who have the necessary qualifications, experience and capacity to perform these services within a very aggressive schedule that has a requirement for all works to be completed by the end of 2020.

2. PROGRAM DESCRIPTION

The construction services and infrastructure as described above will be placed in the areas of Southside, St. David's Island and the St. George's Island. The Program includes seven (7) separate projects that have been developed based on geographic area and specialty scope of work. The Contractor SOQ's will be evaluated against the scope of works requirements for each of the seven (7) separate projects. Contractors can submit SOQ's on one or more of the seven (7) separate projects. A description of the projects are as follows:

i. Tender Package # 1 Stokes Point Water Crossing – Piping Infrastructure

The Stoke's Point Water Crossing – Piping Infrastructure project focuses on connecting St. George's and St. David's Islands with a shallow subsea trench adjacent to the former Severn Bridge. This will involve concrete encased pipework including a 6" sewer force main, an 8" potable water force main, a 6" effluent force main (reclaim water) and a 6" spare force main, reaching a maximum depth of approximately 20'-0" below sea level. On the Eastern end of the crossing the pipes will come from a connection in St. David's road and will enter the water on the beach to the South of the existing Severn Bridge peninsula. They will continue across the seabed to the South of the Severn Bridge, staying clear of existing utilities in the area, until the approach on the Western side where the trench will veer north and align with the roadway abutment. Partial excavation of the central part of the abutment may be needed as the pipe will climb out of the water and into the roadway, connecting to the roadway networks from there.

ii. Tender Package # 2 Stokes Point to St. Regis Hotel – Piping & Pumping Infrastructure

The Stoke's Point to St. Regis Hotel – Piping & Pumping Infrastructure project encompasses bringing sanitary sewer force main, potable water and effluent force main infrastructure from the east side of the Stoke's Point Water Crossing (St. George's side) to the new St. Regis Hotel near Fort St. Catherine's. This includes the implementation of a primary lift station at Tiger Bay (renovation of existing building) which will be designed to send all wastewater from St. Regis, St. George's Club and the Town of St. George's itself to the existing Southside Wastewater Treatment Facility (WWTF). A second sanitary sewer force main will be required to run back to Mullet Bay Road and continue with the potable water and effluent force mains as they make a left up Rose Hill St. towards the St. George's Club. The potable water network will tie into the existing St. George's network in approximately this area and the sewer and effluent force mains will continue Northward through the St. Regis Golf Course. The effluent line will be trenched across the golf course to the existing Government-owned flushing tank and the sewer line will continue from there to the St. Regis Hotel lift station located in the new hotel parking lot.

iii. Tender Package # 3 Storm Water – Sanitary Sewer Separation Southside Area

The Storm Water – Sanitary Sewer Separation Southside Area project focuses on the separation of the combined sewer system into a separate system for storm water and a separate system for sanitary waste. The establishment of the separate systems will be accomplished in two ways. The first is the installation of a sanitary sewer force main from the Southside Wastewater Treatment Facility (WWTF) to the east side of the Stokes Point crossing. The new sanitary sewer force main will tie into existing gravity feed sanitary sewer infrastructure at certain points throughout the Southside sanitary sewer system. The second component of the separation will be to convert the existing combined sewer system into a storm water conveyance system. The design of the new sanitary sewer force main system will include lift and pumping stations as necessary. The new sanitary sewer force main and associated lift and pumping stations will be located within property (roads or off road locations) under the ownership and control of the Bermuda Land Development Company Limited (BLDC).

iv. Tender Package # 4 Southside Wastewater Treatment Facility Plant Upgrades

The Southside Wastewater Treatment Plant Facility upgrades project will increase the wastewater treatment plant capacity from approximately 40,000 usg/d to a capacity of approximately 200,000 ipg/d. The increased capacity will be achieved with the installation of multiple parallel wastewater treatment package units. The units will be pre-manufactured and delivered to the site. The units will either be installed on a slab on grade adjacent to the existing wastewater treatment plant facility or will be installed within a new metal building connected to the existing wastewater treatment plant facility. Final piping and power connections and commissioning of the entire system will be made after the package units have been installed. Additionally, effluent polishing apparatus will be installed at the Southside Wastewater Treatment Plant as well as a force main for effluent water to Reservoir 14. The work will also include miscellaneous improvements to the existing Southside Wastewater Treatment Plant. All works will be done on properties under the ownership and control of the Bermuda Land Development Company Limited (BLDC).

v. Tender Package # 5 Potable Water Reservoir Transfer Network

The Potable Water Reservoir Transfer Network project will involve the interconnection of six (6) existing potable water reservoirs across the Southside property. All of these reservoirs will require a new pumping station buildings with exception of Reservoir 8, which will just be used as a water truck outlet. These pumping stations will provide distribution to the local customer zone as well as allow water to be transferred back into the network to other reservoirs. The existing RO Plant will discharge into Reservoir 13 on the East, and the new Reservoir 13 pumping station will be used as the primary transfer pump to Reservoir 3 near Stoke's Point. Reservoir 3 and its new pumping station will be used as the primary distribution pump to St. George's across Stoke's Point. All pumping stations will be connected with a fiber optic network laid in the trench with the potable water pipes. All trenching works will remain on BLDC property or public roadways.

vi. Tender Package # 6 Flushing Force Main to Reservoir # 6

The Flushing Force Main to Reservoir project includes the tie-in of the treated Southside WWTP effluent with the flushing system in the Town of St. George's. This will involve converting Reservoir 6 to effluent only, and will require a new pumping station buildings built to allow effluent to be pumped across Stoke's Point to the town of St. George's. Reservoir 14 exists on the East end of BLDC near the existing Southside WWTF, and the final tie-in will be into an existing flushing tank to the South of Fort Victoria on the St. Regis Hotel property. Note that this specific package will only cover the pipeline from Southside WWTF to Reservoir 14 to Stoke's Point, inclusive of Reservoir 6, as Tender Package #2 covers the pipeline from Stoke's Point to the St. George's flushing tank.

vii. Tender Package # 7 Telemetry

The Telemetry project will include stand-alone primary flow, level and pressure sensing transducers as well as interfaces to lift and pump station programmable logic controllers all communicating by way of fiber or wireless data transmission to a host system. Software will include analog data storage for trending purposes, discrete alarm and status inputs, alarm/event summaries, mass balance algorithm to assist in infiltration and exfiltration detection, control logic for reservoir water transfer logic, discrete outputs as required for the various control schemes, mobile monitoring/control interfaces and a historian. The lift and pump stations will be controlled by local programmable logic controllers with the ability to interface to the host system for monitoring and controlling remotely. All wired communication will be fiber optic cable located in conduits that will be placed in water – wastewater roadway trenches.

3. STATEMENT OF QUALIFICATIONS (SOQ) SUBMITTAL REQUIREMENTS

Respondents must submit one unbound original, three (3) bound copies and an electronic copy (in PDF format) of the completed SOQ in a sealed envelope. SOQ submittals should be submitted to BLDC offices located at Triton House, 1 Longfield Road, St. George's Parish before 3:00 PM on **Tuesday, March 24th, 2020**.

4. COVER LETTER

The SOQ respondent should provide a cover letter identifying the following:

1. Company name
2. Company ownership and structure
3. Respondent contact name details (phone, email and fax)
4. Number of years in business
5. Primary type of works the company provides
6. A current bank reference

The SOQ respondent should clearly identify the Tendering Packages (projects) that they are submitting their qualifications for. The BLDC reserves the right to add or combine Tendering Packages as necessary to meet the overall goals of the program.

5. PROJECT SPECIFIC EXPERIENCE

The SOQ respondent should provide a written summary describing how their company and proposed sub-contractors are qualified and prepared to complete the scope of works as described in the Tendering Packages listed above. Your written summary should provide evidence of successful experience in the following areas:

1. Description of successfully completed projects of similar scope, scale, complexity and schedule requirements. Include the specific scope of work performed, duration of the works and the contract value. Also provide references for each project presented.
2. Identify types and numbers of equipment owned or rented
3. Traffic Management
4. Utility Company Coordination
5. Trenching via trenching machine and/or back hoe
6. HDPE Pipe Installations with fusion welded connections

7. Trench Backfill and Roadway Restoration
8. Lift & Pumping Station Installations
9. Wastewater Treatment Plant equipment and infrastructure installations
10. Electrical services connections and low voltage controls works
11. Underwater installations of HDPE pipe with fusion welded connections
12. Concrete encasement of underwater HDPE pipe installations
13. Estimated daily production rates for utility trenching and pipe installation
 - a. With Trenching Machine
 - b. With Back Hole machine

6. STAFFING AND PROJECT TEAM ORGANIZATION

For each of the Tendering Packages that the respondent is submitting their qualifications for provide the following:

Completed Annex A - General Contractor / Sub Contractor Staffing Plan identifying the General Contractor and Sub-Contractors being proposed for each work task.

Provide a written description of the proposed project staffing and how the team will be organized. Base your proposed project staffing on the completion of all works by the end of 2020. Include in your written description the in house staff or sub-contractors who will be providing services.

In support of the written description provide:

1. Organizational chart for the project that contains the names and job titles of the employees in key positions that will be committed to the project on full time basis until the completion of the works at the end of 2020.
2. Resumes and availability for employees in key positions. Resumes should demonstrate technical experience in projects of similar scope, size and complexity.
3. Percentage of local Bermudian workers proposed to work on the project
4. Number of crews that can be deployed on a full time basis until the end of 2020
5. List of projects currently under construction and/or committed to until the completion of the works at the end of 2020.

7. QUALITY CONTROL

Provide a description of the Contractor's quality control philosophy, quality control program and processes used during construction to ensure conformance to the project plans and specifications.

8. EVALUATION CRITERIA

The purpose of this Request for Qualifications is to enable the BLDC to prequalify the Contractor's capable of constructing the works described in the Tendering Packages listed above by the end of 2020. The BLDC will assemble a review committee to evaluate Contractor SOQ responses. The review committee will include representative from BDLC, Ministry of Public Works and Consultants as necessary.

The BLDC will evaluate all SOQ's and prequalify Contractor's that in the sole discretion of the BLDC can fully meet the requirements of the program based upon the following criteria:

1. Conformance with the required content specified in the RFQ.
2. Demonstrated sufficient experience and technical competence of the General Contractor and Subcontractors, considering the types of construction works required, the complexity of the project,

the aggressive schedule and the strength and adequate experience of the key personnel who will be dedicated for the project.

3. Demonstrated sufficient experience and technical competence to install HDPE piping with fusion welded connections underwater as designed and specified (Tendering Package # 1)
4. Demonstrated sufficient experience and technical competence to install and commission packaged wastewater treatment systems (Tendering Package # 4)
6. Staff capacity, depth and ability to dedicate multiple crews to the works on a full time basis until the completion of the works at the end of 2020.
5. Training and experience of key personnel
6. Successfully completed projects of similar scope, scale, complexity and schedule requirements.
7. Reference checks
7. Ability to provide the equipment (owned or rented) necessary to execute the works on a full time basis until the completion of the works at the end of 2020.
8. Ability to achieve the daily production rates that will be necessary to successfully complete the works by the end of 2020.

Successful Respondents are hereby notified that any contract awarded by the BLDC will be subject to the laws of Bermuda and in particular as they pertain to the Public Access to Information (PATI) legislation.

Should you have any queries, please contact the Project Facilitator, Mr. Stephen Tucker at 278-2098 or email stucker@bldc.bm.