



STAFF REPORT ACTION REQUIRED

Procurement Authorization Geotechnical & Geoenvironmental Triennial Services Contract G85-343

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| Date: | May 31, 2016 |
| To: | TTC Board |
| From: | Chief Executive Officer |

Summary

The purpose of this report is to obtain authorization for the award of Contract G85-343 for Geotechnical & Geoenvironmental Triennial Services for capital projects to the following three firms, in the upset limit of \$5 million per firm (for a total upset limit of \$15 million) in Canadian funds, with a three year duration from Notification of Award, on the basis of lowest total evaluated price of the qualified proponents:

- Englobe Corp.
- Golder Associates Ltd.
- WSP Canada Inc.

The retained service providers will carry out the geotechnical & geoenvironmental investigations on an as required basis in support of capital and operating projects. The service providers will also provide support in carrying out geoenvironmental monitoring of various TTC properties, and 24 hour on call staff to assist TTC in directing and monitoring emergency clean-up of spills and leaks.

Recommendations

It is recommended that the Board:

1. Authorize award of Contract G85-343 for Geotechnical & Geoenvironmental Triennial Services for various capital projects to the following three firms, in the noted upset limit amounts, in Canadian funds, each for a three year duration from Notification of Award, on the basis of lowest total evaluated price of the qualified proponents:

| Firm | Upset Limit |
|-----------------------|--------------------|
| Englobe Corp. | \$5 million |
| Golder Associates Ltd | \$5 million |
| WSP Canada Inc. | \$5 million |

Financial Summary

Sufficient funds are included in the TTC's 2016-2025 Capital Budget and Plan for various capital projects. Once a project has been approved, a portion of the project budget is used to carry out geotechnical and geoenvironmental investigations, as required. A brief summary of tasks and projects that require geotechnical support is provided in Appendix A.

The contract work will be administered on a Work Assignment Release basis. Work will only commence as authorized by TTC staff in the form of a Work Assignment Release and payment for services will be based on the terms included in the Contract Documents.

The Chief Financial & Administration Officer has reviewed this report and agrees with the financial impact information.

Accessibility/Equity Matters

There are no accessibility or equity issues with the recommendations provided herein.

Decision History

TTC's Geotechnical & Geoenvironmental Design Section of the Engineering Department retains the services of specialty firms to carry out geotechnical and geoenvironmental investigations for various capital projects on an as required basis. The service providers also provide 24 hour on call staff to assist the TTC in directing and monitoring emergency clean-up of spills and leaks in accordance with the corporate emergency response plan and applicable legislation.

Issue Background

This report addresses the retention of service providers who will carry out geotechnical and geoenvironmental investigations in support of capital projects for the TTC (see list of projects in appendix A). Geotechnical and geoenvironmental investigations are a key component in all large and small capital and operational infrastructure improvement projects.

Geotechnical investigations are carried out to determine and assess the soil and groundwater conditions at the location of a planned design and construction works. The

information obtained through these investigations are interpreted by the geotechnical engineers, and geotechnical recommendations for design provided.

In conjunction with geotechnical investigations, geoenvironmental work is carried out to assess the environmental condition and potential impacts of both soil and groundwater for the planned construction works and infrastructure improvements. This information is used, along with the Ministry of Environmental and Climate Change (MOECC) criteria and City By-laws to determine disposal requirements for both soil and groundwater.

Geoenvironmental investigations, Phase I and II Environmental Site Assessments, are carried out on an as needed basis to support Property, Planning & Development activities.

Geoenvironmental work is also carried out for the Environmental Programs, which includes the Garage Subsurface Investigation & Remediation Program and the Storage Tank Replacement Program. The results of these investigations are reported to the MOECC, or the Technical Standards and Safety Authority (TSSA), or both, as required by law or MOECC Orders.

In addition to the services outlined above, the service providers provide 24 hour on call services to assist the TTC in directing and monitoring emergency clean-up of spills and leaks in accordance with the corporate emergency response plan and applicable legislation.

Comments

A Request for Proposal (RFP) was publicly advertised on the Merx website as well as the TTC's website on February 11, 2016. Thirty-four (34) companies downloaded copies of the proposal documents, out of which nine (9) submitted a proposal by the closing date of March 8, 2016. The companies that did not submit their proposals did not provide the type of services, did not have sufficient staff or expertise for the scope of work, were busy with other assignments or did not have sufficient resources to prepare their proposal.

Evaluation of the Proposal Submissions

Submissions from the following companies were received for Geotechnical & Geoenvironmental Triennial Services:

1. Amec Foster Wheeler Environment & Infrastructure, a Division of AMEC Americas Limited
2. Englobe Corp.
3. EXP Service Inc.
4. GHD Limited
5. Golder Associates Ltd.
6. Hatch Mott MacDonald Ltd.
7. Orbit Engineering Limited
8. SNC-Lavalin GEM Ontario Inc.
9. WSP Canada Inc.

An evaluation team consisting of three members representing the Geotechnical & Geoenvironmental Design Section of the Engineering Department and the Materials and Procurement Department, evaluated the qualitative portion of the proposal in accordance with the requirements outlined in the RFP and attached as Appendix B.

The recommendation for award is based on the three (3) lowest total evaluated prices of the qualified proponents. The evaluation of proposals was based on a two envelope process and consisted of qualitative and pricing components. All proposals received were reviewed and rated by the evaluation team on the qualitative aspects of the proposal using the associated weightings as set out in the proposal documents. Those proposals that scored a total qualitative rating of 80 or better were considered qualified. The following companies met or passed the qualitative evaluation and had their pricing envelopes opened:

- Amec Foster Wheeler Environment & Infrastructure, a Division of AMEC Americas Limited;
- Englobe Corp.;
- GHD Limited;
- Golder Associates Ltd.; and
- WSP Canada Inc.

Based on the evaluation process outlined above, the following three (3) companies had the lowest evaluated prices and are recommended for award of contracts:

- Englobe Corp.;
- Golder Associates Ltd.; and,
- WSP Canada Inc.

The three (3) companies recommended for award have satisfactorily performed previous work for the TTC.

Contact

J. W. Lee
Head of Materials & Procurement
Phone: 416-393-3113
Email: Jim.Lee@ttc.ca

P. Laurin
Head of Engineering
Phone: 416-590-6973
Email: pierre.laurin@ttc.ca

Attachments – Appendix A
– Appendix B

03080-88-226

APPENDIX A
PROCUREMENT AUTHORIZATION
GEOTECHNICAL & GEOENVIRONMENTAL TRIENNIAL SERVICES
CONTRACT G85-343

SUMMARY OF PROJECTS REQUIRING GEOTECHNICAL SUPPORT

Communications

- System security/safety upgrades
- Industrial security improvements of TTC Properties

Signal System

- YUS ATC Re-signalling

Equipment

- Bus Cleaning Equipment Program
- Bus Hoist (including Articulated Bus hoists)
- Bus Wash Racks

Yards & Roads

- On-Grade Paving Rehabilitation Program
- Streetcar Network Upgrades for LRV

Buildings and Structures Projects

- Fire Ventilation Upgrade (Including Second Exit)
- Easier Access Phase III
- Wilson Complex – Modifications for the Toronto Rocket
- Toronto Rocket / T1 Rail Yard Accommodation
- LRV Carhouse Facility Renewal Program
- Bus Garage / Shops Facility Renewal Program
- Subway Carhouse / Shop Facility Renewal Program
- Subway Facility Renewal Program
- Fire Main Replacement
- Surface Way Buildings Replacement
- Relief Line Project
- Yonge-Bloor Capacity Improvements Conceptual Design & Alignment

Environmental Programs

- Garage Subsurface Remediation Program
- Storage Tank Replacements

APPENDIX B
PROCUREMENT AUTHORIZATION
GEOTECHNICAL & GEOENVIRONMENTAL TRIENNIAL SERVICES
CONTRACT G85-343

EVALUATION CRITERIA

A. Corporate Qualifications

- Background and capabilities
- Number of years in business
- Depth of available resources
- CADD facilities and compliance to TTC CADD standards
- Local in-house laboratory facilities
- Relevant corporate experience

B. Staff Qualifications/Experience

- Number of years of direct experience
- Technical qualifications
- Relevant experience

C. Pricing Evaluation

| COMPANY NAME | TOTAL EVALUATED PRICE* |
|------------------------------------------------------------------------------------------------------|-------------------------------|
| Englobe Corp.** | \$4,742,096.48 |
| WSP Canada Inc.** | \$4,833,770.80 |
| Golder Associates Ltd.** | \$4,900,296.88 |
| Amec Foster Wheeler Environment & Infrastructure, a Division of AMEC Foster Wheeler Americas Limited | \$4,989,375.39 |
| GHD Limited | \$5,440,955.66 |

(*) – The 3-year Contract Total Evaluated Pricing is derived as a sum of estimated hours multiplied by the hourly billing rate of each key staff member plus the sum of the estimated quantities for various services multiplied by the unit prices. The RFP Document indicated that the TTC intended to award up to 3 contracts with an upset limit amount of \$5M each. The estimated quantities were used for the evaluation purposes only.

(**) – Recommended for award