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CONSULTANT SELECTION FOR ENGINEERING SERVICES GEORGINA WATER TREATMENT PLANT PHASE 2 EXPANSION TOWN OF GEORGINA, PROJECT 72140

The Transportation and Works Committee recommends the adoption of the recommendations contained in the following report, September 14, 2005, from the Commissioner of Transportation and Works:

1. RECOMMENDATIONS

1. It is recommended that the consulting engineering firm of MacViro Consultants Inc. be engaged to undertake the detailed design and contract administration for the construction of the Georgina Water Treatment Plant (WTP) Phase 2 Expansion at an upset limit of \$553,279.20, plus GST.
2. The Regional Chair and Regional Clerk be authorized to execute a formal agreement with MacViro Consultants Inc. for the completion of these services, subject to review by Legal Services.

2. PURPOSE

This report is provided in order to obtain Council authorization to retain consulting engineering services related to the construction of the Georgina WTP Phase 2 Expansion.

3. BACKGROUND

The Georgina Water Treatment Plant is being expanded as part of a long-term water supply strategy being implemented for Keswick, Sutton and the intermediate rural lakeshore areas. The expansion is part of a phased construction project for the Georgina Water Treatment Plant. Phase 1 construction has been substantially completed in June 2004, providing an initial design capacity of 20,000 m³/d. This assignment is for the design and contract administration of the Phase 2 construction which will be designed to bring the plant to a capacity of 40,000 m³/d.

It is estimated that construction will commence in December 2006 and the works will be commissioned in December 2007.

The ultimate capacity which will be achieved upon completion of the last phase of the construction will be 50,000 m³/d.

The Phase 2 Expansion includes the following works:

1. Low lift pump capacity upgrade (from 30,000 m³/d to 40,000 m³/d).
2. Additional Microfiltration Units (from 20,000 m³/d to 40,000 m³/d).
3. Additional Granulated Activated Carbon Contactors (from 20,000 m³/d to 40,000 m³/d).
4. Review/Upgrade of Chlorination/Dechlorination Feed System (from 20,000 m³/d to 50,000 m³/d).
5. Improvements to the existing environment, equipment maintainability and safety.

The Region requires a consultant to provide full engineering services relating to the project above to satisfy the requirements of detailed design and contract administration phases.

4. ANALYSIS AND OPTIONS

In accordance with the Purchasing By-law, Request for Qualifications (RFQ) were received for this work in response to advertisements in the Daily Commercial News and Electronic Tender Network on June 23, 2004. Based on this RFQ, four firms were provided with Request for Proposal (RFP) No. P-05-55. Proposals were received from two of the four of the firms.

The proposals were evaluated using the two envelope system – with technical and financial information kept in separate envelopes. The technical proposal was judged prior to any knowledge of financial bids. Technical content was weighted at 60%. The standard process requires a proponent to achieve a minimum competency (40 out of 60) to progress to the financial evaluation. The technical evaluation was based on the following criteria:

- Project Team Experience.
- Project Understanding.
- Approach and Methodology.
- Project Management Approach.
- Quality Assurance and Quality Control.

The financial evaluation comprised the remaining 40% weight of the total evaluation. Both of the submitted proposals received at least 40 out of 60 on the technical evaluation, therefore, financial proposals were opened. The technical and financial results are summarized in Table 1.

Table 1
Request for Proposal Evaluation Results

Firm	Technical Score, /60	Upset Fee, \$	Financial Score, /40	Total Score, /100
MacViro Consultants	46	\$553,279.20	40	86
Simcoe Engineering	40	\$650,850.00	34	74
KMK Consultants	No bid	No bid	No bid	No bid
AWS Engineers & Planners	No bid	No bid	No bid	No bid

The firm with the best overall score as well as the lowest upset limit cost was MacViro Consultants Inc.

5. FINANCIAL IMPLICATIONS

The upset limit included in the proposal is \$553,279.20, plus GST. There are sufficient funds identified in the 2005 10-year Capital Budget for all anticipated expenditures in 2005.

The fees for contract administration and site inspection were based on a contract duration for construction of 40 weeks. If the actual contract duration varies from the assumed duration, the fees for contract administration and site inspection will be adjusted based on the weekly fee provided in the proposal.

6. LOCAL MUNICIPAL IMPACT

To satisfy the needs of population growth, this project will provide additional water supply capacity to the community of Georgina by 2007.

The Georgina locality is mainly a residential area that contains pockets of tourist and leisure areas and environmentally sensitive areas. However, as the proposed expansion will be accommodated within the existing plant structure, the impact on the environment and neighbourhood will be temporary and minimal.

7. CONCLUSION

The consultants' proposals for this project were evaluated in accordance with Regional policy. It is recommended that the consulting engineering firm MacViro Consulting Inc. be engaged to undertake the detailed design and contract administration relating to construction of the Georgina Water Treatment Plant Expansion – Phase 2 at an upset limit of \$553,279.20, plus GST.

Furthermore, it is recommended that appropriate Regional officials be authorized to take all necessary steps to execute a formal agreement with MacViro Consulting Inc. for the completion of these services.

The Senior Management Group has reviewed this report.