

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JUNE 24, 2014

Item 6, Report No. 26, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on June 24, 2014.

6

AWARD OF REQUEST FOR PROPOSAL RFP13-465
DIGITAL 3D ENVIRONMENT MODELING SOLUTION FOR THE VAUGHAN METROPOLITAN
CENTRE - SELECTION OF CONSULTANT
FILE: 25.3.16
WARD 4

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Commissioner of Planning, Interim Director of Planning / Director of Development Planning and Manager of Urban Design, dated June 3, 2014:

Recommendation

The Commissioner of Planning, Interim Director of Planning / Director of Development Planning and Manager of Urban Design in consultation with the Director of Information and Technology Management, Director of Purchasing Services and Manager of Capital and Reserves Planning recommend:

1. THAT Cansel Survey Equipment Ltd. be retained to carry out the Digital 3D Environment Modeling Solution for the Vaughan Metropolitan Centre (VMC) project, to an upset limit not exceeding \$117,000 plus applicable taxes.
2. THAT a contingency allowance in the amount of \$10,752 plus applicable taxes be approved, within which the Commissioner of Planning or his designate is authorized to approve change orders to the contract, if necessary.
3. THAT the Mayor and City Clerk be authorized to sign the necessary agreements and documents.

Contribution to Sustainability

As one of the most advanced tools in analyzing the physical properties of future developments and assessing their impact on the existing urban environment, the proposed digital 3D environment modeling solution will aggregate all available data sources and create highly realistic and accurate models.

Access to this integrated digital model and data source will assist City staff in reaching the goals and objectives outlined in "Green Directions", Vaughan's Community, Sustainability and Environmental Master Plan, specifically:

Goal 1: To significantly reduce our use of natural resources and the amount of waste generated

- Objective 1.5: To reduce the amount of waste generated in City owned facilities and procure sustainable products for the City's use

Goal 2: To ensure sustainable development and redevelopment

- Objective 2.3: To create a City with sustainable built form

Goal 3: To ensure that Vaughan is a city that is easy to get around with a low environmental impact.

- Objective 3.2: To develop and sustain a network of roads that supports efficient and accessible public and private transit

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JUNE 24, 2014

Item 6, CW Report No. 26 – Page 2

Goal 4: To create a vibrant community where citizens, business and visitors thrive

- Objective 4.2: Ensure that the City of Vaughan attracts businesses and investment that will result in well-paying jobs for Vaughan citizens, a sustainable tax base and continuing prosperity into the 21st Century

Goal 5: To be a leader on sustainability issues

- Objective 5.2: To continue the City's role in advocacy and information sharing on environmental issues

Goal 6: To ensure a supportive system for the implementation of the Community Sustainability and Environmental Master Plan

- Objective 6.1: To fully support the implementation of Green Directions at all levels of City operations

Economic Impact

Funding for the total project costs in the amount of \$133,900.00 is available within the approved Capital Project No. DP-9030-12.

Communications Plan

N/A

Purpose

The purpose of this report is to obtain Council authorization to award RFP 13-465 to Cansel Survey Equipment Ltd. to provide the Digital 3D Environment Modeling Solution for the Vaughan Metropolitan Centre.

Background

On February 11, 2013, Council approved the Vaughan Metropolitan Centre Computer 3D Modeling System Capital Project DP-9030-12 with the following objective:

“The 3D computer modeling system for the VMC will provide for the photorealistic visualization of the VMC through its development with the integration of the geographic context and analytical insight into the modeling process. This 3D modeling system will incorporate a comprehensive Building Information Modeling (BIM) system through a collaborative platform to allow development applicants to import their 3D models and GIS data with walk/fly through animation as a condition of their development approval.”

Request for Information Process

On March 26, 2013, the Purchasing Services Department issued a Request for Information (RFI), titled “The 3D Computer Modeling System to Build a 3D Environment for Existing and Planned Development of the Vaughan Metropolitan Centre.” The intention of the RFI process was to gather the latest information on 3D modeling systems, capabilities and advantages. The RFI was publically advertised utilizing the following publication sources:

- City Page Websites
- Biddingo Website
- OPBA Website

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JUNE 24, 2014

Item 6, CW Report No. 26 – Page 3

A total of nine (9) respondents picked up the RFI documents from the Purchasing Services Department and the following five (5) consultants provided reports:

1. Cole Engineering Group Ltd.
2. Esri Canada Ltd.
3. KFA Architects & Planners Inc.
4. Marmak Industries Ltd.
5. MGP Information Systems Ltd.

The approved Terms of Reference provides for the production of a 3D computer modeling system to generate, create and maintain a Base Model that would simulate the existing and planned conditions of the VMC by including the following objectives:

- Data gathering of the existing condition of the VMC
- Assessment of the City of Vaughan's existing assets, including software standard and dedicated hardware resources
- A computer solution for the creation of a digital 3D model of the VMC
- A digital 3D Base Model of the VMC with the integration of the geographic context
- A data storage and system management solution that will facilitate a multi-user and real-time collaboration among City staff and selected external parties
- Technical staff training on technologies and procedures required to support the proposed solution
- One year system and data management, following completion of the Base Model
- Post-implementation service plan and warranty

Request for Proposal Process

A Request for Proposal (RFP13-465) was released on November 27, 2013 with a closing date of December 23, 2013. The RFP was advertised in the Bidding, City of Vaughan and OPBA websites, and the following three (3) addendums were issued:

Addendum No. 1: Issued on December 6, 2013 to extend the question submission deadline from December 6, 2013 to December 9, 2013.

Addendum No. 2: Issued on December 6, 2013 to extend the RFP closing date from December 23, 2013 to January 9, 2014.

Addendum No. 3: Issued on December 19, 2013 to answer questions from the proponents.

Seven (7) proposal documents were picked from the Purchasing Services Department, and there was only one (1) compliant proposal from Cansel Survey Equipment Ltd.

The RFP provided details of the contract including the following criteria to be used in the evaluation of the submitted proposal:

- | | |
|--|-----|
| i. Proponent Credentials:
Proponent profile and its team's experience and qualifications | 10% |
| ii. Deliverables:
Proponent's demonstrated ability to accomplish the project's requirements and warranty | 50% |
| iii. Implementation and Methodology:
Proponent's understanding of scope of work, proposed management methodology and comprehensiveness of work plan | 15% |

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JUNE 24, 2014

Item 6, CW Report No. 26 – Page 4

- | | |
|---|-----|
| iv. Current Environment & Corporate Information Technology Infrastructure and Security Standards:
Proponent's ability to provide a solution that is compatible and effective within the City's current environment and network standards | 15% |
| v. Quality of Submissions:
Proponent's adherence to the RFP format, legibility and clarity of proposal | 5% |
| vi. Pricing:
Proposal fee and appropriate resource allocations | 5% |

An evaluation committee comprised of staff from Planning, Information and Technology Management, and Purchasing Services, carried out the evaluation process. Based on the evaluation committee's review of the proposal, it was determined that Cansel Survey Equipment Ltd. successfully fulfilled all of the City's technical requirements and qualifications related to the project. The committee further invited the proponent to present more detailed information about their proposal at an interview to complete the evaluation process and answer additional questions. Following these measures, the evaluation committee was satisfied that Cansel Survey Equipment Ltd. met all the required qualifications to successfully complete the "Digital 3D Environment Modeling Solution for the Vaughan Metropolitan Centre" project.

Financial Summary

RFP 13-465:	\$117,000
Contingency:	\$10,752
Recovery (1.76% non-recoverable taxes):	\$2,248
3% Administration Fee:	\$3,900
Total Cost:	\$133,900
Approved Capital Budget:	\$133,900

A total contingency amount of \$10,752 is required and covered within the approved Capital Budget, and will be used to address any unforeseen work. Based on the complexity of the project, there may be potential for unforeseen issues greater than anticipated.

Relationship to Vaughan Vision 2020/Strategic Plan

The recommendations in this report support the following Vaughan Vision 2020 initiatives:

Service Excellence:

- Demonstrate Excellence in Service Delivery
- Enhance and Ensure Community Safety, Health and Wellness
- Lead and Promote Environmental Sustainability

Organizational Excellence

- Maintain Assets & Infrastructure.
- Manage Corporate Assets
- Ensure Financial Sustainability
- Manage Growth and Economic Well-being

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JUNE 24, 2014

Item 6, CW Report No. 26 – Page 5

Regional Implications

The Region of York staff will be asked to provide information and feedback for the Base Model to ensure that essential data concerning the Region's existing and future assets and infrastructure are accurately included and modeled.

Conclusion

The Consultant Cansel Survey Equipment Ltd. is well qualified to fulfill the requirements for the contract, and therefore, it is recommended that they be retained by the City to undertake the Digital 3D Environment Modeling Solution for the Vaughan Metropolitan Centre project.

Attachments

1. Location Map – Vaughan Metropolitan Centre

Report Prepared by:

Farhad Jalili, Urban Designer, ext. 8653
Rob Bayley, Manager of Urban Design, ext. 8254

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)