

Procurement Authorization - Transit Secure Broadcast Messaging Units

Meeting Date: April 23, 2008

Subject: Procurement Authorization - Transit Secure Broadcast Messaging Units

Action Item: X

Recommendation

It is recommended that the Commission authorize the issuance of contracts to Strategic Mapping Inc. on the basis of lowest priced proposal received as follows:

1. In the upset limit amount of \$46,452.04 (including taxes) for the supply of 22 Transit-Secure Broadcast Messaging Units (Pilot Project) required for testing purposes, and
2. In the upset limit amount of \$2,483,292.52 (including taxes) for the supply of 2228 Transit-Secure Broadcast Messaging Units, subject to the successful testing of the Pilot Project.

Funding

Sufficient funds for this expenditure have been included in Program 7.2 Intelligent Transportation and Technical Systems under CIS State of Good Repair as outlined on pages 1421 – 1425 of the 2008-2012 TTC Capital Program as approved by the City Council on December 11, 2007.

In addition, this procurement is partially funded at the rate of 37.5% under the Transit-Secure program to a maximum contribution of \$750,000.00.

Background

The scope of this project is to provide Broadcast Messaging to all surface vehicles and is proposed to be an integrated function contained within the existing Communication Information System (CIS), which provides emergency communications and route management business functions for bus and streetcar service. CIS currently has original design constraints that prevent broadcast messaging capability without adversely affecting system operation.

This capability will also integrate with existing TTC emergency management plans and procedures. The technology for Broadcast Messaging will consist of software and hardware modifications to the existing system, using available off the shelf equipment and will aid in extending the life of CIS and leading to

further system improvements as required.

Information made available to the TTC via emergency services can be relayed to in-service surface vehicles permitting coordinated response to emergency events. This project will result in a significant improvement in security for employees and passengers, as it will allow emergency information to be sent from one location to any or all in service vehicles at once thus reducing the risk of contradictory or different information being dispatched from multiple services.

Discussion

A Request for Proposal (RFP) was issued for proponents to submit firm pricing for the supply of 2250 Transit-Secure Broadcast Messaging (TSBM) units. The primary goal of this initiative is to wirelessly broadcast emergency and non-emergency messages to all of the Commission's surface vehicle operators.

Four companies were invited to submit Proposals in addition to the public advertisement on the TTC Web Site on January 22, 2008 out of which two companies submitted Proposals as summarized on the attached "Appendix A".

The RFP consisted of two Price Schedules:

Price Schedule 1 (Pilot Project) - Included design, construction and supply of rugged enclosures for 22 of the Commission's surface vehicles for testing purposes. In addition, proponents were required to submit their time & material rate for any changes required for their proposed design. For evaluation purposes, fifty hours was estimated for acceptable design changes; and

Price Schedule 2 - Included supply of 2228 rugged enclosure for full deployment on the Commission's surface vehicles, including 3 year hardware warranty for all the units (2250). It also included pricing for optional antennas that may be required by the Commission, pending testing results of the Pilot Project.

Installation of equipment supplied for both of the Price Schedules will be performed by the Commission's staff.

Strategic Mapping Inc. submitted the lower priced proposal. They did not state any exceptions or qualifications to the Commission's terms and conditions and their proposal is considered commercially and technically compliant. They have performed similar work (i.e. Next Stop Announcement System) for the Commission in a satisfactory manner and are considered qualified for this requirement and are being recommended for award. Upon approval by the Commission, staff will award the Pilot Project to

Strategic Mapping Inc. and subject to the successful testing of the Pilot Project, Price Schedule 2 will be awarded.

Cartel Communication Systems submitted the higher priced proposal. They did not state any exceptions or qualifications to the Commission’s terms and conditions and their proposal is considered commercially and technically compliant.

A price comparison is not available as this is a first time purchase for this requirement.

Justification

Broadcast messaging to revenue vehicles will allow the in service vehicle fleet to receive information pertinent to emergency events.

April 23rd, 2008

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Attachment: Appendix “A”

Appendix “A”

Procurement Authorization – Transit Secure Broadcast Messaging Units

Proposal Summary

	Strategic Mapping Inc.	Cartel Communication Systems
Price Schedule 1 – Pilot Project (22 Units)	\$46,452.04	\$95,669.19
Price Schedule 2 -Full Deployment (2228 UNITS)	\$2,483,292.52	\$7,198,884.22

Note: Strategic Mapping Inc is recommended for awards.