ORANGE COUNTY GOVERNMENT FLORIDA

Interoffice Memorandum

October 18, 2023

TO: Mayor Jerry L. Demings
            -AND-
            County Commissioners

FROM: Carrie Mathes, CFCM, NIGP-CPP, CPPO, C.P.M., Manager II, Procurement Division

CONTACT: Anthony Rios, Deputy Chief, Fire Rescue Department
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SUBJECT: Ratification of Purchase Order M112332, Maintenance Renewal of Box Area Run Card Builder (BARB) and Dispatch Validator (DiVa)

ACTION REQUESTED:

Ratification of Purchase Order M112332, Maintenance Renewal of Box Area Run Card Builder (BARB) and Dispatch Validator (DiVa), with Deccan International Corporation, in the amount of $120,221.

PROCUREMENT:

The Computer Aided Dispatch Analyst/Apparatus Deployment Analysis Module (CADA/ADAM), Hybercube (HPC), Optimizer, DiVa, and BARB applications enable the Fire Rescue Department to quickly generate recommendations for running routes to every street address. The process considers changes in road networks, road closures and openings, and special events, as well as unit types and their capabilities. This system functions as a back-up CAD system in the event of a CAD system failure. The maintenance renewal period is October 1, 2023 through September 30, 2024.

FUNDING:

Funding is available in account number 0001-031-0506-3192.

APPROVALS:

The Fire Rescue Department and the Information Systems and Services Division concur with this recommendation.

REMARKS:

In 2014, the County acquired and implemented the BARB, DiVa, CADA, ADAM, and Live Move-UP Module (LiveMUM) applications. These are proprietary software systems. Deccan International Corporation is the sole authorized firm to provide maintenance and support. The procurement and implementation cost associated with purchasing another solution would far exceed the annual maintenance cost associated with maintaining the existing applications.

The DiVa tool is an extension to the BARB application. This tool is used to detect and correct anomalies in real-time and to ensure accurate Computer Aided Dispatch (CAD) recommendations. Additionally, DiVa is designed to prepare for active backup of the CAD by speeding the backup process and providing for an indexed electronic reference book, enabling users to retrieve relevant information as it is saved in the CAD.

CADA is used to analyze historical call data within the service area. When paired with ADAM, this data can be used to drive decisions on where to best place new fire stations or where to allocate additional response units. HPC and Optimizer are modules for ADAM that determine runs per day and availability and help to provide better accuracy for estimates and projections of response time.

LiveMUM monitors the status of response vehicles and evaluates gaps in unit availability. It recommends unit move-ups based on event probability determined through historical call volume.

Price reasonableness is established based on this analysis, and the price increase is within the industry standard of 5% annually.