



Acoustic Gunshot Detection Solution (AGDS)

Estimated Cost - \$2,400,000/5 Years

RFP-00327 - Verification of Availability

December 28, 2015

SBD is attempting to place a Small Business Measure on RFP-00327. Please review this document to determine if your firm would be able **provide the contract's scope of services and is willing to participate on this solicitation**. If your firm is interested, please include **a copy of your firm's resume or list of projects or list 3 similar projects on the last page of this document**.

The deadline to respond to this Verification of Availability is 2:00 PM, Monday, January 4, 2016.

Tyrone White

Contract Certification Specialist

Miami-Dade County Small Business Development Division

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“Help stimulate **Miami's economy by supporting Small Businesses”**

Please familiarize yourself with the Project Review Process Website:

<http://www.miamidade.gov/smallbusiness/projects-under-review.asp>

VERIFICATION OF AVAILABILITY TO PROPOSE

INTERNAL SERVICES DEPARTMENT (ISD)
SMALL BUSINESS DEVELOPMENT (SBD) DIVISION
COMMUNITY SMALL BUSINESS ENTERPRISE PROGRAM
111 N.W. 1ST STREET, 19th FLOOR
MIAMI, FLORIDA 33128
PHONE: 375-3111 FAX: 375-3160

CONTRACT SPECIALIST: Tyrone White

I am herewith submitting this letter of verification of availability and capability to propose, provided the proposed scope of work attached. (**NOTE:** Please provide all the information requested; incomplete and/or incorrect verifications are not acceptable or usable.)

CONTRACT TITLE: Acoustic Gunshot Detection Solution (AGDS)

PROJECT NUMBER: RFP-00327

Estimated Contract Amount: \$2,400,000/5 Years

NAME OF FIRM

ADDRESS

CITY

ZIP CODE

Certification Expires: _____
DATE

Telephone: (____) _____ - _____

PRINT NAME AND TITLE

SIGNATURE OF COMPANY REPRESENTATIVE

DATE

Currently Awarded Projects (Name of Project and Owner)	Project Completion Date	Contract Amount	Anticipated Awards

VERIFICATION OF AVAILABILITY TO PROPOSE

CONTRACT TITLE: Acoustic Gunshot Detection Solution (AGDS)

PROJECT NUMBERS: RFP-00327

ESTIMATED CONTRACT AMOUNT: \$2,400,000/5 Years

2.1 INTRODUCTION

This document provides the project services required by the Miami-Dade Police Department (MDPD) in order to implement an acoustic gunshot detection solution (AGDS) in specified areas of Miami-Dade County (MDC).

Can your firm implement an acoustic gunshot detection system?

Yes _____ No _____

(If yes, please provide a copy of your firm's resume or list of projects or list 3 similar projects on the last page of this document)

2.2 BACKGROUND

The MDC land mass covers over 2,400 square miles. Less than half of that area is developed. The Developed area supports 2.6 million residents and over 13 million annual visitors.

The MDPD serves as the County Sheriff's Office, and provides specialized services to the entire county, including municipalities that have their own police department. The MDPD is solely responsible for law enforcement services to about half of the county's residents with approximately 2,600 sworn personnel.

Because random and intentional gunfire are significant problems, the MDPD has taken an aggressive stance to curtail gun violence. In October 2014, the MDPD formed a partnership with Forensics Logic, Inc., provider of the Law Enforcement Analysis Portal (LEAP), to help address these concerns. This portal is a repository for intelligence information that allows law enforcement to share data that may not otherwise have been available to local, state, and federal agencies. As the largest source of law enforcement data, the analytical features of LEAP allow users to make "connections" and make other previously –unavailable analysis. In addition to LEAP, the MDPD has been incorporating the National Integrated Ballistic Information Network (NIBIN), a forensic based technology, into their investigations in order to make every effort to identify and arrest shooters. The MDPD has discovered that the ballistic information from NIBIN has "confirmed more than 68,000 NIBIN hits." Though NIBIN has been an integral tool that has helped link individuals to firearm-related crimes, the combination of LEAP and NIBIN is just one of several methods that MDPD is leveraging to overcome the plague of gun violence occurring within MDC.

The MDC proposes to develop and implement a comprehensive, analysis-and forensic-driven approach to reduce gun violence within the region by incorporating gunshot detection technology has a component of a larger initiative. This initiative will be innovative because it:

- Has not been widely implemented in the region
- Takes a regional approach in lieu of jurisdictional
- Takes an interdisciplinary approach
- Integrates disparate resources and related resources
- Technology-driven (not manpower intensive)
- Is an operational component of the MDPD Real-Time Crime Center (RTCC)
- Directly feeds information to the MDPD Forensic Services Bureau
- Directly feeds information to the MDPD RTCC
- Directly feeds information to the MDPD Communications Bureau for dispatch
- Represents crime-fighting capabilities heretofore only seen in the realm of science fiction

2.3 CURRENT OPERATING ENVIRONMENT

There are multiple areas that are plagued by gunshot incidents. Such areas are several square miles each. The large quantity of gunshots in these areas has compelled the MDPD to modernize its methods of response. Such

modernization will increase the accuracy of locating gunshot incidents, will decrease the response times thereto, and will improve the likelihood of obtaining invaluable forensic evidence.

To help address such gunshot incidents, numerous initiatives have been in place for many years. These initiatives implemented at varying but significant cost included:

- Area saturation
- Line patrol
- Anonymous “tip lines”
- Non-secular public appeals
- Secular public appeals
- Community involvement
- Community-oriented policing

The efficacy of these initiatives is varied.

For gunshot incidents, multiple problems hamper the MDPD response:

- No report from the public
 - Did not hear the incident
 - Did not recognize the incident as a gunshot
 - Did not care
- Delayed report from the public
 - Fear of reporting/becoming involved
 - Did not feel compelled to report
 - Did not know how to report
 - Delayed report often eliminates evidence
 - No timely apprehension of subject
 - Forensic evidence reduced or eliminated
- Inaccurate report from the public
 - Incorrect time or date
 - Incorrect location
 - Incorrect quantity of shots fired
 - Incorrect type of weapon identified
 - Reporting engine backfire or firework as gunshot

Regardless of the reason, delayed or inaccurate information always causes a delayed, incorrect, or insufficient response from the MDPD. Such delays lead to the loss of forensic evidence:

- cartridge cases
- projectiles
- bodily fluids/DNA
- footprints
- theft of weapon left on scene
- other evidence tampering by indigenous personnel
- video

Such inaccuracies and reporting delays regularly permit the subject to escape and continue to pose a danger to citizens

Would this section cause a problem for your firm?

Yes _____ No _____

2.4 DESIRED SOLUTION FUNCTIONALITY

It is critical for the MDPD to increase gunshot detection location accuracy, decrease response times, apprehend fleeing subjects, and improve the likelihood of obtaining forensic evidence.

To help fulfill its mission, the MDPD requires a gunshot detection solution whereby all hardware, software, acoustic vetting, and maintenance is handled by the vendor; the epitome of a “turn-key” solution. Such a service is to be quoted for a period of five (5) years, and is to provide coverage for a finite Gunshot Detection Zone (GDZ). The MDPD currently desires such a solution for each GDZ listed below:

- GDZ #1 (4 square miles)
- GDZ #2 (2 square miles)
- GDZ #3 (2 square miles)

To avoid vandalism or any other compromise of the deployed hardware, it is of the utmost importance that location information be withheld from the public. Geographic boundary information will be provided at a later time on a “need to know” basis.

The acoustic gunshot detection solution should perform as follows:

1. Install hardware on public or government property.
2. Provide vetted confirmation within 60 seconds of gunshot detection.
3. Provide exact X, Y, and Z coordinates in addition to the address.
4. Overlay incident location onto existing MDPD-utilized mapping
5. Ensure that vetting is conducted by Subject Matter Experts
6. Ensure that vetting determines the nature of a sound is a gunshot and not vehicles, fireworks, or other similar sounds.
7. Provide a date- and time-stamped digital recording of the incident for immediate playback.
8. Provide the ability to record the event and save all corresponding information in a method compatible with current MDPD computer systems.
9. Ensure sixty-day data retention
10. Acoustic sensors must be certified to withstand south Florida windstorm and other harsh climate conditions.
11. Favorable and extensive record of service with 2+ square mile coverage areas in cities within the United States of America.
12. Solution must be able to timestamp individual gunshots to at least 1/10 of a second utilizing a GPS clock or clock compatible with existing MDPD Netclock time stamping.
13. Ability to network acoustic sensors together in a Wide Area Network (WAN) utilizing any/all of the following communication methods: wireless 900 MHZ, hardwire, existing WAN access point, public wireless/cellular carriers (encrypted as necessary).
14. Provide the option to interface with networked video surveillance cameras remotely controlled by the MDPD.
15. The solution must be United States Department of Homeland Security (DHS) Safety Act certified and be listed on the DHS Responder Knowledge Base as an allowable use for DHS funds.
16. Total Data output from the vendor must assist the MDPD to recreate an incident to assist the forensic investigation: exact location of each shot, exact time of each shot, and matching forensic-grade digital recordings.
17. Vendor must have a favorable record of its data being accepted by court systems in the United States of America.
18. Vendor must have documentation to support the claim of contributing to a reduction of gun-related crime in coverage areas in the United States of America.
19. Vendor must provide, at no charge, forensic and other Subject Matter Expert witnesses to assist the MDPD and the Miami-Dade County State Attorney’s Office in the prosecution of cases.
20. Provide a “turn-key” type of service, where all hardware, software, maintenance, upgrades, training, and technical support are provided the by manufacturer/vendor, all for a single fee, which the MDPD pays once per year.
21. Solution must be 100% seamless and otherwise compatible with gunshot detection solutions implemented in areas of concern that are contiguous to MDPD-patrolled territory.
22. Vendor will supply a quote for a system described herein, wherein such system is plug-and-play ready for a high-definition, all weather, video and audio camera system; such system may be purchased by Miami-

Dade County (MDC) at a later date; such system will be compatible with the existing MDC video management system (currently Genetec).

23. Vendor will also supply a quote for a system described herein, wherein such system includes a high-definition, all weather, video and audio camera system; such system shall be compatible with the existing MDC video management system (currently Genetec).
24. To ensure accountability and decrease the quantity of "outside" personnel who are aware of the location of deployed hardware, the vendor must be the only entity involved in the installation and maintenance; no outside contractors.

Can your firm provide a gunshot detection solution whereby all hardware, software, acoustic vetting, and maintenance is handled by your firm; the epitome of a "turn-key" solution?

Yes _____ No _____

Can your firm provide a gunshot detection solution which adheres to 1-24?

Yes _____ No _____

2.5 REQUIRED SYSTEM INTEROPERABILITY

The selected AGDS must be seamlessly interoperable with the AGDS in use by agencies whose geographic areas of responsibility are contiguous to those areas in which the MDPD seeks to deploy its own AGDS. Such interoperability is critical in the event of proximal or mobile gunshot incidents.

The selected AGDS must seamlessly interoperable with the existing dispatch systems used by the MDPD Communications Bureau reference e911 Dispatch functions.

Would this section pose a problem for your firm?

Yes _____ No _____

2.6 REQUIRED INTERFACES

The selected AGDS must be seamlessly interoperable with the existing MDC video management solution (currently Genetec).

Would this section pose a problem for your firm?

Yes _____ No _____

2.7 IMPLEMENTATION/CONFIGURATION SERVICES

The vendor must provide the epitome of a "turn-key" system, whereby all permitting, site surveys, hardware, software, communication, function, vetting, and data deliverables are the responsibility of the vendor.

It is understood that the MDPD and MDC will provide basic support in order to achieve installation and operational goals of the vendor.

Can your firm provide the epitome of a "turn-key" system, whereby all permitting, site surveys, hardware, software, communication, function, vetting, and data deliverables are the responsibility of your firm?

Yes _____ No _____

2.8 MAINTENANCE AND SUPPORT SERVICES

The vendor shall be solely responsible for maintaining the full functionality of their service, including (but not limited to) maintenance of and upgrades to their hardware, software, and procedures that ensure fully vetted and timely deliverables.

In the event of theft, vandalism, weather events, or other damage to vendor-owned and vendor-operated hardware, the vendor shall be responsible for replacing the item(s) with the same or better versions at no cost to the MDPD or MDC. Moreover, vendor shall endeavor to affect such repairs or replacement in an expeditious manner.

Can your firm be responsible for maintaining the full functionality of the service, including (but not limited to) maintenance of and upgrades to their hardware, software, and procedures that ensure fully vetted and timely deliverables ?

Yes _____ No _____

2.9 TRAINING

Vendor shall provide training to designated persons within the MDPD as part of their service.

Would this section pose a problem for your firm?

Yes _____ No _____

Contractor Qualifications Questionnaire

This questionnaire will assist SBD in identifying the qualified contractors that can provide the aforementioned good(s)/service(s). Indicate yes "Y" or no "N" on the empty line on the left side of this questionnaire and forward it completely filled out to this e-mail address: twj@miamidade.gov or via fax (305) 375-3160 attention Mr. Tyrone White.

_____ PROPOSER (PRIME) has experience completing projects with a similar size and scope as this project, meets the requirements of the PROPOSER (if any) and can perform the work as required.

_____ PRIME **DOES NOT** have experience providing the required good(s) and/or services required by this solicitation.

I certify that to the best of my knowledge all the information provided is verifiable and correct.

Name of Firm: _____ Certification #: _____

Representative's Name: _____

Title: _____ Signature: _____

Please respond by **2:00 PM, Monday, January 4, 2016.**

Any questions, feel free to contact me at the number below.

PLEASE LIST YOUR FIRMS HISTORY OF SIMILAR PROJECTS, REASON(s) WHY YOUR FIRM DOES NOT MEET THE EXPERIENCE REQUIREMENTS (IF APPLICABLE) AND ANY COMMENTS YOU MAY HAVE ON THE NEXT PAGE

SIMILAR PROJECTS AS PRIME OR SUB-CONTRACTOR

Please attach a copy of your firm's resume or list your firm's history of "Projects with Similar
Scopes of Services" below:

Project Title: _____

Client Name: _____

Contact #: (____) _____ - _____ / _____

Contract Amount: \$ _____

Scope of Service(s):

Project Title: _____

Client Name: _____

Contact #: (____) _____ - _____ / _____

Contract Amount: \$ _____

Scope of Service(s):

Project Title: _____

Client Name: _____

Contact #: (____) _____ - _____ / _____

Contract Amount: \$ _____

Scope of Service(s):

REASONS & COMMENTS
