



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
600 Fifth Street, NW, Washington, DC 20001-2651

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION Amendment 001		2. EFFECTIVE DATE March 10, 2015	
3. ISSUED BY PURCHASING SECTION Gerald G. Copeland PRMT (Room 3C-03-C) Department of Procurement		4. ADMINISTERED BY (If other than block 3) Same	
5. CONTRACTOR NAME AND ADDRESS (Street, city, county, state, and Zip Code)		6. FORM TYPE (Check only one) <input checked="" type="checkbox"/> AMENDMENT OF SOLICITATION NO. <u>FQ-15134</u> DATE <u>February 2, 2015</u> <input type="checkbox"/> MODIFICATION OF CONTRACT/ORDER NO. _____ DATE _____ (See block 9)	
7. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS <input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in block 10. The hour and date specified for receipt of Offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods; (a) By signing and returning <u>1</u> copies of this amendment; (b) by acknowledging receipt of this amendment on each copy of the offer submitted; or (c) by separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.			
8. ACCOUNTING AND APPROPRIATION DATA (If required)			
9. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS (a) <input type="checkbox"/> This Change Order is issued pursuant to _____ The Changes set forth in block 10 are made to the above numbered contract/order. (b) <input type="checkbox"/> The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 10. (c) <input type="checkbox"/> This Supplemental Agreement is entered into pursuant to authority of _____ It modifies the above numbered contract as set forth in block 10.			
10. DESCRIPTION OF AMENDMENT/MODIFICATION 1. The purpose of this amendment is to extend the Bid due date to March 18, 2015 at 2:00 PM 2. This amendment also answers questions from prospective vendors that are relative to IFB FQ15134. 3. This amendment also includes revised scope of work to reflect: a) updated installation for percussion actuated non electric disruptor to the man portable robot; b) quantity of rounds for the percussion actuated non electric disruptor and c) separating man portable small robotic platform from percussion actuated non electric disruptor. 4. This amendment also includes updated Price Schedule Except as provided herein, all terms and conditions of the document referenced in block 6, as heretofore changed, remain unchanged and in full force and effect.			
11. <input type="checkbox"/> CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS MODIFICATION AND RETURN _____ COPIES TO ISSUING OFFICE.		11. <input type="checkbox"/> CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT	
12. NAME OF CONTRACTOR/OFFICE BY _____ (Signature of person authorized to sign)		15. WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY BY <u>W. Y. Lo</u> (Signature of Contracting Officer)	
13. NAME AND TITLE OF SIGNER (Type or print)	14. DATE SIGNED	16. NAME OF CONTRACTING OFFICER (Type or print) Lily Cheung	17. DATE SIGNED Mar 10, 2015

Questions and Answers

1. Page 11 is the Schedule of Prices page where we will put our pricing response. However, Attachment A, pages 89-108, lists descriptive information for many products, some of which is NOT referred to on page 11. Do we ignore the other items, for example, Level A Personal Protective Equipment-Kappler Frontline 500 or equivalent?

Answer: Please refer to Price Schedule Amendment 001 for specific quantities for base and option period.

2. What is the difference between the schedules of pricing (Base Year and Option 1)?

Answer: We evaluate both prices (base and option) but we reserve the option to purchase those additional items at any time during the performance period.

3. On page 11, there are 2 "Schedules of Prices." One of them requests the pricing of 10 Man Portable Small robotic Platforms and the other calls for 12. How many units should we prepare for the Solicitation, Offer, and Award page?

Answer: Please refer to Price Schedule Amendment 001 and revised Scope of Work that reflects a) updated installation for percussion actuated non electric disruptor to the man portable robot; b) quantity of rounds for the percussion actuated non electric disruptor and c) separating man portable small robotic platform from percussion actuated non electric disruptor.

4. Do you have an indication of other primes who may be bidding this?

Answer: We do not know who may be bidding at this time. We will only know the bidders after the proposal due date.

5. I would like to request a one week extension to the bid submission date for IFB No. FQ15134 due to the forthcoming changes within 48 hours or less of the current submission date of 2:00 PM on March 11, 2015.

Answer: The bid submission date for IFB NO. FQ15134 is extended to March 18, 2015 2:00 pm.

6. In reference to the following items on IFB No. FQ15134. Please consider the following changes;
1. Man Portable Percussions Actuated non-electric Disruptor (carbon Fire 10 or equivalent
 2. Man Portable Percussions Actuated non-electric Disruptor (carbon Fire 10 or equivalent

Both 1. And 2. Should have the requirement for the Ammunition deleted and a separate line item for ammunition should be created per the attached.

Item 1. Should be removed from being listed under: "Man Portable Robotics Platform" and should be listed under a separate Line item: "CarbonFire10 Robot adapter System"

Answer: Please refer to Price Schedule Amendment 001 and revised Scope of Work that reflects a) updated installation for percussion actuated non electric disruptor to the man portable robot; b) quantity of rounds for the percussion actuated non electric disruptor and c) separating man portable small robotic platform from percussion actuated non electric disruptor.

Revised Scope of Work

Introduction

The purpose of this acquisition is to equip and supply the Metro Transit Police Department (MTPD) for detection of and response to a chemical, biological, radiological, nuclear or explosive (CBRNE) threat scenario. MTPD requires additional supplies and equipment to allow members to conduct CBRNE detection and response operations. The procurement will expand the current capabilities of MTPD, allowing for better protection of members and reduction of risk for patrons through the ability of MTPD to more effectively respond to CBRNE threats.

Background

The Metro Transit Police Department currently has several units with responsibility for CBRNE detection and response, including the Anti-Terrorism Teams, Explosive Ordnance Detection Canine Teams, and Hazardous Devices Unit. MTPD has expanded both the size and capability of the Hazardous Devices Unit to handle the full range of CBRNE threat scenarios. As the unit has expanded, additional tools have been identified as needed for combating specific categories of threats. The products within this solicitation represent the current need to fill identified capability gaps and to provide the unit the tools to be more agile in CBRNE response. MTPD continues to expand the detection activities of the Department to prevent a successful CBRNE attack on the transit system. Among the activities being undertaken by MTD for broader detection is the Security Inspection Point program. An increased number of members will be able to conduct these operations through separate procurement activities. To support those operations several items are needed, particularly items to inform the public and limit the effects of any device that may be found.

Current Scope of Work

MTPD serves as the dedicated law enforcement entity for the Washington Metropolitan Area Transit Authority (WMATA). Additional information on MTPD may be found at http://www.wmata.com/about_metro/transit_police/. WMATA operates transit bus and rail service in the Nation's Capital and surrounding jurisdictions. Additional information on WMATA may be found at http://www.wmata.com/about_metro/.

MTPD has identified a need to expand the capabilities to detect and respond to the variety of CBRNE threats that may be encountered. The Hazardous Devices Unit has responsibility for inspecting suspicious items to determine if they are a threat, regardless of whether they are potentially chemical, radiological, or explosive threats. In order to effectively perform activities to make a determination of whether an item is a threat, particularly within the unique environment of the transit system, they require a variety of tools and protection equipment. The technicians routinely use portable x-ray machines which produce ionizing radiation. To ensure that technicians are not exposed to too much radiation over a given period of time, personal dosimeters are necessary. When encountering a potential radiological device or source, technicians need additional identifying information for the specific isotope involved. Identifying the isotope will guide notification and decontamination procedures taken by the technicians onsite. For devices with the potential for detonation, the technicians must have adequate countermeasures to stop detonation. Since the unit encounters very different operational environments within the transit system, from buildings to trains to buses, different countermeasure platforms are needed. The unit has identified a need for small robotic platforms able to deliver a disruptor

device as well as a disrupter not requiring a robot to allow technicians to enter compact locations quickly and deploy the disrupter.

MTPD conducts Security Inspection Points (SIPs) throughout the transit system and will be expanding the capability. To support these operations, basic items to inform the public of the inspection and place bags for interrogation are required. During the inspection operations there is a possibility that a suspect bag will be found. To protect the public from the effects of a blast, several items are needed to shield patrons from the suspect bag in the short window from when the item is determined to be suspicious and a technician with the

Hazardous Devices Unit begins further inspection and possible disruption. These items, including a fragmentation bag and blast wrap blanket, will provide an intermediate step to provide even greater control and protection of the public in handling suspicious items.

The specific items required and their specifications are located in the “Technical Specifications” portion of this document. The quantities required for each item in the specification are listed in the “Deliverables” section of this document. All items proposed in a single line must be identical in manufacturer and product. Fulfillment of the requirement with a portion from one manufacturer and another portion from a different manufacturer will not be permitted. All items in the base contract must be delivered within 120 days of the award of contract to the successful bidder. To ensure all items are accounted for, the successful bidder will inform the designated

WMATA POC of all shipments prior to final delivery, the items to be contained in each shipment, and electronic tracking information for each shipment. The options may be exercised for individual or multiple quantities in each line. The items in each exercised option quantity must be delivered within 120 days of the notice to proceed from WMATA. Award will be made by line. An interested party may submit a proposal for a single line or multiple lines. Proposals will only be compared within a line.

Deliverables

- Items as specified in the Technical Specification in the quantities listed in the below table:

Base Contract:

Item	Quantity
Fragmentation Bag	5
Ballistic and Blast Mitigation Blanket	5
Direct Reading Dosimeter	10
Radiation Isotope Identification Device	1
Man Portable Small Robotic Platform	10
Percussion Actuated Non-electric Disruptor	10
Percussion Actuated Non-electric Disruptor Dismounted Operations Kit	10
Flat Panel X-Ray System	3
Remote Firing Device for X-ray	3
Organic Detection Module for X-ray	3
Raman Spectrometer	1
Level A Personal Protective Equipment-Kappler Frontline 500	42
Portable Outdoor Signs	15
Man Portable Folding Tables	10
Cleaning Wipes (160 per container)	125

Options:

Item	Quantity
Fragmentation Bag	47
Ballistic and Blast Mitigation Blanket	47
Direct Reading Dosimeter	12
Radiation Isotope Identification Device	19

Man Portable Small Robotic Platform	12
Percussion Actuated Non-electric Disruptor	12
Percussion Actuated Non-electric Disruptor Dismounted Operations Kit	12
Flat Panel X-Ray System	12
Remote Firing Device for X-ray	12
Organic Detection Module for X-ray	12
Raman Spectrometer	11
Level A Personal Protective Equipment-Kappler Frontline 500	40
Portable Outdoor Signs	81
Man Portable Folding Tables	54
Cleaning Wipes (160 per container)	300

- Notification of shipments at the time they are sent from the vendor, whether a direct shipment from the successful bidder or drop shipped from a third party
- Tracking information for each shipment at the time of shipment

Performance and Acceptance Criteria

- All items must be delivered new, unused, unsoiled, free of damage, and free of imperfection
- All items must meet the technical specification, including all identified standards
- Must be able to provide the quantity indicated in the technical specification of each item
- Must be able to provide WMATA POC with advance notice of all items being shipped and shipment tracking information for each delivery

Technical Specifications

Fragmentation Bag			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Weight	Must not exceed 25 pounds		
Dimensions	Minimum: 18" X 12" X 12" Maximum: 24" X 18" X 18"		
Fragmentation/Blast Protection	Must provide protection from a one pound pipe bomb. Must be fire resistant.		
X-rayable	Must not contain any metal components to permit accurate x-		

	raying		
Bomb disposal robot compatibility	Must have grab points to permit a bomb disposal robot to open, close, and load the bag with the manipulator arm		
Ballistic and Blast Mitigation Blanket			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Color	Black		
Ballistic Protection	Must provide a minimum of National Institutes of Justice (NIJ) Level IIIA protection for penetration		
Fragmentation/Blast Protection	Must provide protection from a hand grenade and one pound pipe bomb. Must be fire resistant.		
Dimension	Must be not less than 36" not greater than 60" wide and not less than 48" and not greater than 60" long when flattened		
Weight	Must not exceed 25 pounds, with all straps and carrying case		
Straps	Must include a neck and/or shoulder strap to permit the blanket to be secured to a person, vehicle, and/or doorway Must include forearm and/or hand straps for use in holding the blanket		
Additional panels	Must include a blast ring for use in directing the blast upward into the overlaid blanket		
Warranty	Not less than one year for workmanship Not less than five years for ballistic protection ("performance")		
Direct Reading Dosimeter			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided

Weight	Must not exceed 2 ounces with light		
Dimensions	Must not exceed 5" X 1" (not including light)		
Detection	Direct Read Must be capable of measuring and reading accumulated dose at any time		
Exposure Range	Must provide a 200mR scale measurable in 10 mR increments		
Visibility	Must be readable in low light conditions. Accessories may be provided to satisfy this requirement.		
Power	Must provide a minimum of 12 hours of continuous use without being charged. Must provide a means to recharge device. Accessories may be provided to satisfy this requirement.		
Health/functionality monitoring	Must have means of confirming system functionality. Accessories may be provided to satisfy this requirement.		
Operating Temperature	Must operate at least from -3° Celsius to 32° Celsius		
Standard Compliance	Must comply with the following standards: <ul style="list-style-type: none"> • RADIAC METER IM-264/PD • ANSI N 13.5 ANSI N322 		
Leakage	Should be no greater than 2% of full scale in a 24-hour period		
Ruggedization	Must be sealed and immersion proof		
Attachment	Must be able to be clipped to an article of clothing		
Frequency of use	Must be reusable		

Radiation Isotope Identification Device

Requirement	Detailed Description	Compliance (Yes/No)	Description of product to
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			be provided
Weight	Must not exceed five pounds, including any batteries		
Dimensions	Must not exceed 10" X 4" X 4"		
Detection Capability	Must be able to detect gamma and neutron		
Dose-rate range	Must be a minimum of 1µrem/h to 100rem/h		
Dose range	Must be a minimum of 10µrem to 100 rem		
Energy Range	Must be a minimum of 25 keV to 3.0 MeV		
Operating Temperature	Must operate at least from -3° Celsius to 32° Celsius		
Power	<p>Must function on standard alkaline disposable, 123A, or NiMH rechargeable batteries.</p> <p>Batteries must provide a minimum of 8 hours of continuous monitoring.</p> <p>Must indicate battery charge level, as well as produce an alarm for low battery.</p> <p>Must provide a DC connector for recharging any batteries.</p> <p>Must provide a means to charge batteries from a vehicle.</p>		
Data Recording and Downloading	Must be able to record data internally and have a means of exporting the data to a laptop.		
Standard Compliance	Device must meet ANSI N42.34-2006		

	Device must meet IP54		
	Device must meet or exceed MIL-STD 810G method 516.6		
Warranty	Must provide a warranty of five years		
Man Portable Small Robotic Platform			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Main Robot			
Operating Range	300 yards line of sight from operator location		
Battery Life	Minimum of four hours continuous operation		
Climbing Angle	Maximum: 60° incline		
Vertical Traverse	Minimum: 10" vertical		
Physical Dimensions	Not to exceed 19" X 16" X 7" when flipper is folded in Not to exceed 25" X 16" X 7" when flipper is folded out		
Weight	Must not exceed 25 pounds without battery installed and 28 pounds with battery installed		
Moving Speed	Must be capable of traveling a minimum of four miles per hour with a Percussion Actuated Nonelectric (PAN disruptor), such as the Carbon Fire 10 or equivalent		
Track system	Must consist of a closed track system with brushless motors		
Radio type	Must have a minimum of a secure 2.4GHz Wi-Fi connection		
Drive Camera View Angle	Must be a minimum of: <ul style="list-style-type: none"> • Horizontal half angle: 		

	<p>61°</p> <ul style="list-style-type: none"> • Distance 45 centimeters • Horizontal view: 165 centimeters 		
Headlight	<p>Must be a minimum of 200 lumens (LED) visible light and 180 mW/sr for infrared.</p> <p>Must have an on/off toggle for visible and infrared</p>		
Ground Clearance	<p>Must have a minimum clearance of .75 inches or 20 millimeters</p>		
Antenna height from the ground	<p>Must not exceed 26 inches</p>		
Water traverse	<p>Must be able to traverse water up to 12 inches in depth</p>		
Front flipper rotation	<p>Must rotate a minimum of 300°</p>		
Stair Climbing Capability	<p>Must be able to traverse a stair with a minimum rise of 8” and run of 10”</p>		
Operating Surfaces	<p>Must be able to operate in a minimum of sand, rock, gravel, mud, grass, carpet, concrete, and tile</p>		
Temperature	<p>Operating temperature: 0F to 120F (-17.5C to 49C)</p> <p>Storage temperature: -14F to 140F (-25C to 60C)</p>		
Ruggedization	<p>Must meet MIL-STD 810G method 516.6</p>		
Power source	<p>Must operate on a single BB-2590 battery and not require tools to remove the battery</p> <p>Must provide a minimum of four hours continuous use when fully charged</p>		

	<p>Must provide one additional battery for extended use</p> <p>Must be capable of fully recharging a battery that has been fully discharged in a maximum of four hours</p> <p>Must provide all battery charging accessories, including charger banks, adapters, and/or power cords.</p>		
Payload connections	<p>Chassis must include a minimum of two DB25 payload ports, including one in the rear of the robot for use with trailer hitch connection.</p> <p>Payload port covers must be provided for when ports are not in use.</p>		
Percussion Actuated Non-electric Disrupter Compatibility	<p>Must be compatible with Carbon Fire 10 or equivalent disrupter, including Picatinny rail</p> <p>Must come with complete firing system to include:</p> <ul style="list-style-type: none"> • 24V DC Firing Circuit • Duke Pro CAL-OP0029 or equivalent single shock tube initiation device • Disrupter mount for robot 		
Controller			
Dimensions	Must not exceed 11" X 7" X 3"		
Weight	Must not exceed 25		

	pounds including all components		
Radio Type	Must have a minimum of a secure 2.4GHz Wi-Fi connection and 900 MHz		
Battery	<p>Must use a standard lithium ion battery or equivalent</p> <p>Must provide a minimum of four hours continuous use when fully charged</p> <p>Must be capable of fully recharging a battery that has been fully discharged in a maximum of four hours</p> <p>Must provide all battery charging accessories, including charger banks, adapters, and power cords.</p> <p>Must include one additional battery for extended use.</p>		
Screen	<p>Must have a screen no less than five inches wide</p> <p>Must have touch screen capability for all applications</p>		
CPU	<p>Must have a minimum of a 1.6 GHz processor</p> <p>Must have a minimum of 1 GB RAM</p> <p>Must have a minimum of 4 GB SSD memory</p>		
Ruggedization	Must meet MIL-STD 810G method 516.6		

Video	<p>Must be MJPEG stream with a minimum of 15 frames per second</p> <p>Must have a minimum resolution of 640 X 480 pixels</p> <p>Must have a minimum data transfer rate of 8MB/min or 136KB/s</p> <p>Must be able to record a minimum of four hours of video</p>		
Memory	Must have a minimum of 16GB of storage via internal memory or expansion card		
Extended Manipulator Arm			
Weight	Must not exceed 18 pounds		
Extension (from front of the robot)	Must not be less than 40" or 35" from ground contact		
Lowest horizontal view level	Must not be greater than 10.5" from the ground		
Highest horizontal view level	Must not be less than 34" or 39" with flipper		
Lift Capacity	Must not be less than eight pounds when arm is fully extended or 12 pounds with the arm is pulled in		
Turret rotation	Must not be less than 330° and must be able to reach the rear of the robot when rotated		
Shoulder Rotation	Must not be less than 180°		
Elbow Rotation	Must not be less than 180°		
Wrist Rotation	Must not be less than 360° continuous		
Gripper	Must open a minimum of 100 millimeters		

	<p>Must open a minimum of 45°</p> <p>Must have a minimum of 30 pounds of closing force</p> <p>Must have a minimum of 30 pounds of closing force</p>		
Integrated Camera	Must have an integrated camera with day/night visible light color and infrared capability		
Overload Protection	Must have a torque limiting clutch at each axis		
Universal Shock Tube Initiator			
Function	Must allow wireless initiation of Percussion Actuated Non-electric (PAN) disruptors for remote activation		
Mount Location	Must be mounted at the side of the manipulator arm		
Interface	Must have a handheld controller and native software		
Dimensions	Must not exceed 12" X 6" X 3" including tip and bracket		
Weight	Must not exceed 2.5 pounds, including tip and bracket		
Circuit Type	Solid State		
Firing Voltage	2000V		
Firing Energy	0.65J		
Maximum Shock Tube OD	3.1 millimeters		
Minimum Shock Tube ID	0.9 millimeters		
Deployment Backpack			
Dimensions	Must not exceed 30" X 24" X 12"		
Weight	Must not exceed eight pounds when empty, with required waist		

	belt		
Other	<p>Must fit robot and all associated accessories, including controller, spare battery, and arm.</p> <p>Must include a waist belt for ergonomic distribution of weight.</p> <p>Shoulder straps must be padded for operator comfort</p>		
<p>Installation of Percussion Actuated Non-electric Disruptor on Man-Portable Robot</p> <p>Prior to delivery of robot, successful PAN bidder will ship PAN to successful robot manufacturer. Successful robot manufacturer will deliver robot with PAN installed.</p>			
<p>Man Portable Percussion Actuated Non-electric Disruptor (Carbon Fire 10 or equivalent)</p>			
Disruptor Type	Percussion Actuated Non-electric (PAN)		
<p>Adapter System</p>			
Barrels	Must include a primary barrel and a 6” titanium water shot extension barrel		
Breech	Must include MagFire T3 breech and breech plug, or equivalent		
Mount	<p>Must have a robot barrel mount with two green laser sights</p> <p>Must include Picatinny clamp-on mount</p> <p>Must include a robot adapter clamp</p>		
Boresight	Must include a 12 gauge red laser boresighter		
Parachute	Must include a parachute, parachute tube and cap, and a parachute retainer and protective clamp		
Other	PAN disruptor must be delivered mounted to robot with laser sights positioned for use		
<p>Ammunition</p>			

Rounds	Must include a minimum of 50 rounds of each type of ammunition available for PAN		
Warranty/Maintenance			
Warranty	Extended five-year (5) warranty and non-routine maintenance for the equipment. The extended warranty and maintenance shall include at a minimum all interior and exterior parts of machines, power accessories, display, carrying cases/bags, accessories, other non-consumable items required for proper operation, and software. Updates to operating software and upgrades to proprietary functional software will be provided under warranty.		
Training	On-site training must be provided to include operator level functions, basic maintenance, advanced maintenance, and administration of the system. Training and user manuals for all functions delivered in on-site training will be provided.		
Installation of Percussion Actuated Non-electric Disruptor on Man-Portable Robot			
Prior to delivery of robot, successful bidder will ship PAN to successful robot manufacturer and work with manufacturer to have PAN installed on robot.			
EOD Dismounted Operations Kit			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Main Kit			
Disruptor Type	Percussion Actuated		

	Non-electric (PAN)		
Barrels	Must include a primary barrel and a 6” titanium water shot extension barrel		
Breech	Must include MagFire T3 breech and breech plug, or equivalent		
Tripod	Must include a tripod with barrel mount and two green laser sights		
Mount	Must include a base plate and stake mount, with associated adapters Must include a clamp on mount Must include a rugged skid plate		
Boresight	Must include a 12 gauge red laser boresighter		
Parachute	Must include a parachute, parachute tube and cap, and a parachute retainer and protective clamp Must include a lanyard		
Accessories	Must include a cleaning kit, including rods, brushes and tools necessary for routine maintenance of devices Must have a rugged nylon case with shoulder harness or equivalent		
Ammunition			
Rounds	Must include a minimum of 50 rounds of each type of ammunition available for PAN		
Warranty/Maintenance			
Warranty	Extended five-year (5)		

	<p>warranty and non-routine maintenance for the equipment. The extended warranty and maintenance shall include at a minimum all interior and exterior parts of machines, power accessories, display, carrying cases/bags, accessories, other non-consumable items required for proper operation, and software. Updates to operating software and upgrades to proprietary functional software will be provided under warranty.</p>		
Training	<p>On-site training must be provided to include operator level functions, basic maintenance, advanced maintenance, and administration of the system. Training and user manuals for all functions delivered in on-site training will be provided.</p>		
Flat Panel X-ray System			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Minimum System Components	<ul style="list-style-type: none"> • Image Control Unit • Flat Panel Detector • Laptop sufficient to support system requirements and software updates • Wireless communication between ICU, Laptop, and X-ray Machine • Wired communication between ICU, laptop, 		

	<ul style="list-style-type: none"> • and X-ray machine • Image acquisition and enhancement software • Power supplies • Backpack carrying case <p>Tripod mount for flat panel detector</p>		
Sensor Type	Amorphous Silicon		
Weight	<p>Flat Panel Detector: Not to exceed 12 pounds</p> <p>Complete System: Not to exceed 70 pounds</p>		
Physical Dimensions	<p>Imaging Panel: Not to exceed 19" X 20" 1"</p> <p>Must not exceed 34" X 24" X 14" with complete system in carrying case</p>		
Imaging Dimensions	Minimum of 13" X 16"		
Operating Temperature	Must operate between 0° Fahrenheit and 100° Fahrenheit		
Battery Life	Minimum of four hours continuous operation		
Power Source	<p>Must provide a minimum of four hours continuous use when fully charged</p> <p>Must provide one additional battery for extended use</p> <p>Must be capable of fully recharging a battery that has been fully discharged in a maximum of four hours</p> <p>Must provide all battery charging accessories, including</p>		

	<p>charger banks, adapters, and/or power cords.</p> <p>Wired communications must also provide power supply.</p>		
Image Resolution	<p>Not less than 3.5 lp/mm</p> <p>Not less than 120 μm</p>		
Dynamic Range	16 bit		
Communication	<p>Must have wireless and wired communications options between laptop and ICU and x-ray source</p> <p>Wired communications/power must be provided for a minimum of 35m.</p> <p>Wireless range from laptop to ICU must be a minimum of 300 meters (line of sight)</p> <p>Image must be stored in the ICU and able to be resent automatically in the case of temporary loss of WiFi connectivity</p>		
Compatibility	Must be compatible with Golden Engineering 5-pin x-ray		
Penetration	Must penetrate a minimum of 60mm of steel when used with the Golden Engineering XRS-3		
Software	<p>Provided software must provide:</p> <ul style="list-style-type: none"> • A minimum of 400% zoom free of digitizing 		

	<p>effect</p> <ul style="list-style-type: none"> Window leveling, Adaptive Histogram, and Stitching function layers; raw image will not be altered by enhancement layers Image database with stored metadata, such as working conditions, time, and date Image database must be searchable 		
Warranty	Must provide a warranty of five years		
Remote Firing Device for X-Ray			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Weight	Not to exceed one pound with battery		
Indications	<p>Must indicate:</p> <ul style="list-style-type: none"> Power status of remote trigger Power status of the x-ray X-ray is in range for firing 		
Safety Delay	Must provide a delay of a minimum of five seconds between pulses to prevent continuous firing		
Power	Must utilize power from the x-ray		
Range	Must provide a minimum of 300m (line of sight)		
Compatibility	Must be compatible with all Golden Engineering 5-pin x-ray sources		
Warranty	Must provide a warranty of five years		
Organic Detection Module for X-ray			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Physical Dimensions	Must not exceed 5" X		

	4" X 3"		
Weight	Must not exceed one (1) pound		
Power Source	Must utilize power from Golden XRS-3		
Material Discrimination	Must be able to discriminate between organic materials, soft inorganic materials, and hard inorganic materials Must assign each type of material a specific color within a single image.		
Compatibility	Must be compatible with Golden Engineering 5-pin x-ray Must be compatible with flat panel x-ray system as specified above, including software to permit interpretation of images		
Communication	Must permit wired or wireless x-ray firing		
Operating Temperature	Must operate between 0° Fahrenheit and 100° Fahrenheit		
Connection to X-Ray	Must not require specialized or proprietary tools to connect unit to X-ray Must use 5-pin LEMO connectors used by Golden Engineering XRS-3		
Warranty	Must provide a warranty of five years		
Raman Spectrometer			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Weight	Must not exceed 2.5		

	pounds		
Modes	Must be capable of operation in both a handheld point-and-shoot or fixed probe mode		
Ruggedness	Must meet MIL-STD 810G and IP67		
Maintenance/Calibration	Instrument must not require scheduled maintenance or calibration		
Power	<p>Must provide a minimum of four hours continuous use when fully charged</p> <p>Must be capable of operation with rechargeable battery, wall plug, or 123A disposable batteries.</p> <p>Must be capable of fully recharging a battery that has been fully discharged in a maximum of four hours</p> <p>Must provide all battery charging accessories, including charger banks, adapters, and/or power cords.</p>		
Operating Temperature	Must operate between 0° Fahrenheit and 100° Fahrenheit		
Identification	Must be capable of identifying solid and liquid substances, including explosives, toxic industrial chemicals, chemical warfare agents, narcotics, and precursors.		
Technical Support	Must provide 24/7		

	technical support		
Warranty	Must provide a warranty of five years		
Level A Personal Protective Equipment-Kappler Frontline 500 or equivalent			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Entry	Must be a single front entry garment		
Standards	Must meet NFPA 1991 base requirements Must meet NFPA 1991 flash-fire resistance and radiant heat protection for Flash Fire and Liquefied Gas requirements		
Use frequency	Designed and approved for multiple uses (non-exposure)		
Seams	Must have double heat-sealed seams		
Gloves	Must have replaceable glove system		
Exposure	Must have a minimum of six hours normalized breakthrough time for Ammonia, Chlorine, Hydrogen Chloride, Sulfuric Acid, Toluene, and Sodium Hydroxide		
Portable Outdoor Signs			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Minimum Dimensions	30" Width X 40" Height		
Maximum Dimensions	36" Width X 48" Height		
Minimum Dimensions (Visual Area)	20" Width X 24" Height		
Maximum Dimensions (Visual Area)	24" Width X 36" Height		
Maximum Weight (Empty)	30 pounds		
Shape	Vertical Rectangle		

Material	Plastic, composite, or equivalent. Wood is not acceptable		
Color	White, Grey, Off-White, Ivory, Silver, Black, or equivalent		
Additional Features	Must be suitable for outdoor use, including protection from deterioration due to precipitation mist, wind, and ultraviolet exposure Protection from damage to floors must be provided		
Warranty	Minimum of one-year limited warranty		
Portability	Must have wheels		
Man Portable Folding Tables			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Unfolded Dimensions	Must not exceed 80" Length X 36" Width X 36" Height		
Fully Folded Dimensions	Must not exceed 40" Length X 36" Width X 4" Height		
Weight	Must not exceed 50 pounds		
Shape	Rectangle		
Minimum Weight Capacity	500 pounds		
Material (Legs and crossbars)	Tubular steel		
Material (Top)	Plastic, metal, composite or equivalent. Wood is not acceptable.		
Color	White, Grey, Off-White, Ivory, Silver or equivalent		
Additional Features	Must be suitable for outdoor use, including protection from deterioration due to precipitation and		

	<p>ultraviolet exposure</p> <p>Protection from damage to floors from legs must be provided</p> <p>Must be stain resistant</p>		
Warranty	Minimum of one-year limited warranty		
Portability	Handles for carrying table must be included		
Cleaning Wipes (160 per container)			
Requirement	Detailed Description	Compliance (Yes/No)	Description of product to be provided
Quantity per container	Must contain 160 wipes		
Environmentally Friendly	Must be approved by the Environmental Protection Agency		
Surface	Must be non-abrasive and suitable for use on porous surfaces		
Disinfection Capability	<p>Must be able to kill, at a minimum, the following viruses and bacteria:</p> <ul style="list-style-type: none"> • Mycobacterium tuberculosis var: bovis (BCG) • Staphylococcus aureus • Pseudomonas aeruginosa • Salmonella choleraesuis • Trichophyton mentagrophytes • Clostridium difficile (vegetative cells only) • Methicillin Resistant Staphylococcus aureus (MRSA) 		

	<ul style="list-style-type: none"> • Vancomycin Resistant Enterococcus faecalis (VRE) • Staphylococcus aureus with reduced susceptibility to vancomycin • Hepatitis B Virus (HBV) • Hepatitis C Virus (HCV) • Herpes Simplex Virus Types 1 and 2 • Human Immunodeficiency Virus (HIV-1) • Human Coronavirus (not associated with Severe Acute Respiratory Syndrome or SARS) • Influenza A2 Virus 		
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Performance Schedules

- Notification of shipment and tracking information must be supplied within 24 hours of shipment being made by vendor
- All items must be delivered within 120 days of final contract award for base contract, and within 120 days of notice to proceed for options

Evaluation criteria

- Proposals will be evaluated on ability to provide the required items meeting the technical specifications, including all identified warranties and standards
- Proposals will be evaluated on ability to deliver the required items within the timeframes required, with more rapid delivery of items meeting the technical specifications being preferred

Submittal Requirements

- Proposer will provide the list of specific items to be supplied for the base contract, identifying the manufacturer and individual product to be supplied
- The proposer must supply an image, product data sheet with the features of the item (i.e. dimensions, materials, colors, etc.), and laboratory validation of compliance with identified standards
- Proposer will provide the estimated delivery schedule for items under the base contract

- Proposer will provide planned method for providing advanced notice of shipments, items within shipments, and shipment tracking to WMATA POC

Location of work and any constraints

- The delivery location is a secured facility. Shipment notification and tracking information must be provided to the WMATA POC to ensure a representative will be present to receive items.
- The location does not have a loading dock, pallet jack, or fork lift. If shipments are palletized, the shipper must provide a means of unloading pallets from the vehicle to a level parking lot surface.
- The entry to the facility has limited clearance from each side. Any delivery vehicle must be able to pass through an entry 13' wide with an immediate right turn and exit 13' wide with a wide left turn. Vehicles of larger sizes may deliver items only if a separate means of transporting the shipments from the street adjacent into the adjacent facility is provided.
- Items will be delivered to:

Metro Transit Police Department
4303 Auth Place
Suitland, MD 20746

Price Schedule Amendment 001 (Base)

Est. Quantity	Description	Unit of Measure	Unit Price	Total Price
5	Ballistic and Blast Mitigation Blanket	ea.		
125	Cleaning Wipes	ea.		
10	Dosimeter	ea.		
3	Flat Panel X-ray System	ea.		
5	Fragmentation Bag	ea.		
10	Man Portable Folding Tables	ea.		
10	Man Portable Small robotic Platform	ea.		
10	Percussion Actuated Non-electric Disruptor	ea.		
3	Organic Detection Module for X-ray	ea.		
10	Percussion Actuated Non-electric Disruptor Dismounted Operations Kit	ea.		
15	Portable Outdoor Signs	ea.		
1	Radiation Isotope Identification Device	ea.		
1	Raman Spectrometer	ea.		
42	Level A Personal Protective Equipment – Kappler Frontline 500 or equivalent	ea.		
3	Remote Firing Device for X-ray	ea.		
	Total			

Price Schedule Amendment 001 (Option)

Est. Quantity	Description	Unit of Measure	Unit Price	Total Price
47	Ballistic and Blast Mitigation Blanket	ea.		
300	Cleaning Wipes	ea.		
12	Dosimeter	ea.		
12	Flat Panel X-ray System	ea.		
47	Fragmentation Bag	ea.		
54	Man Portable Folding Tables	ea.		
12	Man Portable Small robotic Platform	ea.		
12	Percussion Actuated Non-electric Disruptor	ea.		
12	Organic Detection Module for X-ray	ea.		
12	Percussion Actuated Non-electric Disruptor Dismounted Operations Kit	ea.		
81	Portable Outdoor Signs	ea.		
19	Radiation Isotope Identification Device	ea.		
11	Raman Spectrometer	ea.		
40	Level A Personal Protective Equipment – Kappler Frontline 500 or equivalent	ea.		
12	Remote Firing Device for X-ray	ea.		
	Total			

Authorized Signature

Company Name

Date