THE BOARD OF LAKE COUNTY COMMISSIONERS

PRESENTS

INVITATION TO BID FOR

A BOMB ROBOT
FOR LAKE COUNTY REGIONAL BOMB SQUAD

Bid Location:

Lake County Administration Center
105 Main Street
Painesville, OH 44077

BID OPENING TIME

Wednesday, August 6, 2014 11:00 A.M.

NAME / ADDRESS OF FIRM, PERSON(S) SUBMITTING BID,
NAME ADDRESS AND TELEPHONE NUMBER OF CONTACT PERSON:

_____

_____

_____

TOTAL AMOUNT BID ON SALE OF BOMB ROBOT, INCLUDING CUSTOMIZATIONS

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(Bidder to complete above information)

INSTRUCTIONS TO BIDDERS
BID FOR BOMB ROBOT
FOR LAKE COUNTY REGIONAL BOMB SQUAD

SPECIFICATIONS

Sealed Bids will be received by the Board of Lake County Commissioners in and for Lake County at their Office in the Lake County Administration Center, 105 Main Street, Painesville, Ohio 44077; up to the hour of 11:00 AM local time on Wednesday, August 6, 2014, and made public thereafter for bids to provide a bomb robot capable of serving the needs of the Lake County Regional Bomb Squad.

See Attached Exhibit "A" for a complete list of specifications.

Bids shall be addressed to the above Office of the Board of Lake County Commissioners and marked BID FOR BOMB ROBOT.

The lowest and best bid will be awarded a contract to Purchase a Bomb Robot by the Lake County Commissioners (Lake County Emergency Management Agency) for use by the Lake County Regional Bomb Squad. If the lowest and best bidder cannot or fails, for any reason to perform the contract, the County may re-bid the Bomb Robot or award the contract to the next lowest and best bidder.

County reserves the right to reject any and all bids for a Bomb Robot. The County may conduct discussions with bidders who submit bids for clarification or correction to ensure full understanding and responsiveness to the requirements.

Bidders are directed to correspond with Captain Andrew Lehner, Mentor Police Department c/o Bomb Squad, at 8500 Civic Center Blvd. Mentor, Ohio 44060, or by telephone number (440) 974-5760.

BIDDING REQUIREMENTS

The bid for providing a bomb robot capable of serving the needs of the Lake County Regional Bomb Squad must be accompanied by a bond, certified check, cashier's check or money order payable to Lake County Ohio. The bond, certified check, cashier's check or money order provided shall be five percent of the bid amount.

The bids must be held open for a period not longer than sixty (60) days after bid opening and the award may take place at any time after bid opening. All bonds, certified checks, cashier's checks and money orders submitted with the bid, not held due to an award of a contract, will be returned after the sixty (60) day period has elapsed. The bidder awarded the contract shall forfeit the bond, certified check, cashier's check and money order submitted, if said bidder fails to enter into a contract to provide a Bomb Robot. The bonds, certified checks, cashier's checks or money orders shall be released after the contract is signed by all parties and a performance bond for the

full amount of the contract shall be required in its place. Payment for the project will be provided within 60 days of satisfactory completion and delivery of the Bomb Robot.

Each bid must contain the full legal name of the person(s), corporation, partnership or other organization desiring to provide a bid to the County for a Bomb Robot, including the principal owners if operating as a legal entity with a different name, and a contact person with a telephone number in the space provided above. Each bidder must also supply three references from similar projects bidder has previously completed.

CRITERIA

Lake County will consider the following criteria in determining lowest and best bidder in the Bid submitted.

1. Familiarity, Knowledge and Experience with constructing robots used in bomb squad operations.
2. Ability to meet the specifications outlined in Exhibit "A" including Customizations and Miscellaneous items.
3. Specificity of Submitted Bid regarding the Bidder's Ability and Plan to construct the bomb robot, including but not limited to, shop drawings, specification sheets, etc.
4. Fitness for Intended Purpose and Use of the Lake County Bomb Squad
5. Extent that the Bid follows the bidding requirements and law.
6. References.
7. Price.

EXHIBIT "A"

SPECIFICATIONS FOR
POLICE BOMB ROBOT FOR
LAKE COUNTY REGIONAL BOMB SQUAD

1. One (1) New (current model) unmanned ground robot for bomb squad operations

2. Approximate Dimensions:
    - Height--69"
    - Width--29"
    - Length--58"
    - Clearance (ground)—5.5"

3. Approximate Weight—800 lbs

4. Mobility:
    - Six wheels with individual drive motors
    - Removable tracks and free-wheel mode
    - Capable of traversing up to a 45% incline
    - Approximate Speed of 0-2 mph
    - Capable of traversing an opening of approximately 19" wide
    - Approximate 58" turning radius

5. Robotic Arm Manipulator Requirements:
    - Variable Speed Control
    - Dual-sided quick change accessory mounts
    - Torso--rotation of approximately +/- 170 degree from center
    - Approximate 210 degree Shoulder rotation
    - Approximate 210 degree Elbow rotation
    - Approximate 210 degree Wrist rotation with an approximate 8" extension capability
    - Gripper rotation of 360 degrees-continuous
    - Gripper open/close range approximately 0"-8" @ 0-50 lbs pressure
    - Arm must be capable of lifting approximately 145 lbs at 18" and 60 lbs fully extended
    - Vertical Arm reach of approximately 109 degrees
    - Horizontal Arm reach of approximately 71"

6. Surveillance Camera Requirements:
    - Color camera with low-light switching capabilities
    - Extra low-light color pan/tilt/zoom with a 360 degree continuous pan and approximate 216:1 aperture ratio
    - An approximate 18 degree tilt-Auto /Manual focus and iris
    - An approximate 80 watt adjustable halogen light with detachable infrared lens
    - A motorized camera extender

7. Arm Camera Requirements:
    - Pan and tilt capability
    - An approximate 80 watt adjustable Halogen light with detachable infrared lens

8. Front Drive Camera Requirements:
    - Black and white low-light fixed focus with auto-iris capability

9. Disrupter Camera Requirements:
    - One (1) fixed camera with detachable infrared lens and a laser sighting system

10. Audio Requirements
    - Two-way Audio System with weatherproof speaker and microphone

11. Electrical Requirements
    - Approximately seven (7) isolated 24-Volts DC firing circuits
    - 24-Volts DC Battery and Charger
    - One (1) Spare 24-Volts DC Battery and Charger
    - Joint Architecture for Unmanned Ground Systems (JAUS) compliant
    - ¼ turn connectors for easy connect /disconnect
    - Interchangeable data links for Fiber Optic and Hard-line Cable Reel; RF Digital/Hybrid

12. Environmental Design Requirements
    - Sealed/weather resistant enclosure
    - All-terrain construction and capable of operation on wet or dry surfaces
    - One (1) Operator-Controlled unit equipped with an approximate 8½" LCD display monitor and the ability to directly connect to the robot. Unit should include truck-mounted system with AC power designed to connect with a Video Monitor, DVR and Audio System

- One (1) Data-link digital hybrid radio control with storage case. Unit should operate at approximately five (5) watt video, twelve (12) watt telemetry and five (5) watt audio of RF power

13. Customization Requirements:
    - One (1) dual-pan Disrupter-Mount Assembly
    - One (1) Two-channel Shock Tube Initiator
    - One (1) Rear-Mount Receiver Hitch

14. Delivery, Training and Product Support Requirements:
    - Vendor delivery to 8505 Garfield Road, Mentor, OH 44060
    - Approximately twenty (20) hours of vendor-supplied on-site Operator and Support/Maintenance Training to occur at Garfield Road location
    - One (1) Robot Maintenance Service Table
    - CD-ROM Operation and Service Manual
    - 24/7 on-call Product Service and Support