



## LEGAL NOTICE

### INVITATION TO SUBMIT QUOTATIONS

The Town of Smyrna will accept quotations on the purchase of equipment for the Fire Department. Bidders shall submit sealed quotations in the format specified in the Invitation to Submit Quotations no later than **10:00 a.m. May 10, 2017** at which time bids will be publicly opened and read aloud. No bid may be withdrawn after the scheduled closing time for a period of 90 days. Bidding documents may be obtained at Smyrna Town Hall during regular business hours or [www.townofsmyrna.org](http://www.townofsmyrna.org). Quotations should be mailed or hand delivered to:

Rex S. Gaither  
Smyrna Town Hall  
**Sealed Bid on Fire Dept Equipment / May 10 @ 10:00 a.m.**  
315 South Lowry Street  
Smyrna, TN 37167

The Town of Smyrna will not discriminate in the purchase of all goods and services on the basis of race, color, religion, sex, national origin, age, disability or any other lawfully protected classification.

Verbal quotations or quotations received after the closing date will not be accepted. The Town of Smyrna reserves the right to reject any and all bids, to waive technicalities or informalities and to accept any bid deemed to be in the best interest of the Town.

SUBMITTED BY: REX S. GAITHER  
FINANCE DIRECTOR

TO BE RUN: April 21, 2017

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## **SECTION I - GENERAL INFORMATION**

- A. The Town of Smyrna requests quotations on the purchase of equipment for the Fire Department.

Smyrna Town Hall location:  
315 South Lowry Street  
Smyrna, TN 37167

Smyrna Fire Station # 4  
145 South Lowry Street  
Smyrna, TN 37167

Questions should be directed to Asst. Chief James Lawrence, Phone: 615-459-9735 Ext. 7520, E-mail: [james.lawrence@townofsmyrna.org](mailto:james.lawrence@townofsmyrna.org) or Asst. Chief Ferris Belcher, Phone: 615-459-9735 ext. 7562, E-mail: [ferris.belcher@townofsmyrna.org](mailto:ferris.belcher@townofsmyrna.org).

- B. The Town of Smyrna reserves the right to reject any and all bids, to waive technicalities or informalities and to accept any bid deemed to be in the best interest of the Town. No bid may be withdrawn after the scheduled closing time for a period of 90 days
- C. The bidder shall abide by and comply with the true intent of the specifications and not take advantage of any unintentional error or omission, but shall fully address the full intent and meaning of each aspect of the specifications.
- D. Section II and III shall be completed and included as an integral part of each bidder's proposal.
- E. Freight shall be paid by vendor and should be included in unit price bid.
- F. The Town is a tax exempt organization.
- G. Mail is delivered after 11:00 a.m. Monday through Friday.
- H. The Town of Smyrna, in accordance with Title VI of the Civil Rights Act of 1964 and Title 49, Code of Federal Regulations, hereby notifies all Bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, minority business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, creed, sex, handicap or national origin in consideration for an award.
- I. Bid quotations must be submitted on the Town's quotation page(s). No exceptions.
- J. By submission of this bid, each bidder/proposer and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to T.C.A. § 12-12-106 Iran Divestment Act.  
[https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List\\_of\\_persons\\_pursuant\\_to\\_Tenn.\\_Code\\_Ann.\\_12-12-106,\\_Iran\\_Divestment\\_Act-July.pdf](https://www.tn.gov/assets/entities/generalservices/cpo/attachments/List_of_persons_pursuant_to_Tenn._Code_Ann._12-12-106,_Iran_Divestment_Act-July.pdf)

## **INSURANCE REQUIREMENTS**

The Vendor shall purchase and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Vendor, its agents, representatives, employees or subcontractors.

### **A. MINIMUM SCOPE AND LIMITS OF INSURANCE**

#### **1. Workers Compensation**

Workers Compensation insurance shall be in compliance with the State of Tennessee and shall be statutory. Employers Liability shall be included with a minimum limit of \$500,000 per accident/per disease/per employee.

#### **2. Commercial General Liability**

Commercial General Liability insurance shall have a minimum limit per occurrence of \$1,000,000 and a minimum general aggregate of \$2,000,000. It shall include completed operations, product liability and personal injury liability insurance.

#### **3. Automobile Liability**

Automobile Liability Insurance shall have a minimum combined single limit per occurrence of \$1,000,000. This insurance shall include third-party bodily injury and property damage liability for owned, hired, borrowed and non-owned automobiles.

### **B. DEDUCTIBLES AND SELF-INSURED RETENTIONS**

Any deductibles or self-insured retentions must be declared to the Town of Smyrna. The Vendor shall be responsible for all deductibles and self-insured retentions.

### **C. OTHER INSURANCE PROVISIONS**

The policies are to contain, or be endorsed to contain, the following provisions:

#### **1. General Liability and Automobile Liability Coverages**

- a. The Town, its elected and appointed officials, agents, employees and volunteers shall be named as an additional insured as regards negligence by the vendor.
- b. The Vendor's insurance shall be primary as respects the Town, its elected and appointed officials, agents, employees and volunteers. Any insurance or self-insurance maintained by the Town of Smyrna shall be excess and non-contributory of the Vendor's insurance.

#### **2. Workers Compensation and Employers Liability Coverage**

The insurer shall agree to waive all rights of subrogation against the Town, its elected and appointed officials, agents, employees and volunteers for losses arising from work performed by the Vendor for the Town of Smyrna.

#### **3. All Coverages**

- a. Coverage shall not be canceled, suspended, or voided by either party (the Vendor or the insurer) or reduced in coverage or in limits except after 30 days written notice has been given to the Town of Smyrna. Ten-day written notice of cancellation is acceptable for non-payment of premium. Notifications shall comply with the standard cancellation provisions in the Vendor's policy.
- b. Neither the acceptance of the completed work nor the payment thereof shall release the Vendor from the obligations of the insurance requirements or indemnification agreement.
- c. The insurance companies issuing the policies shall have no recourse against the Town of Smyrna for payment of premiums or for assessments under any form of the policies.
- d. Replacement certificates, policies or endorsements shall be provided to the Town for any such insurance expiring prior to the completion of services.
- e. Any failure of the Vendor to comply with reporting provisions of the policy shall not affect coverage provided to the Town, its elected and appointed officials, agents, employees and volunteers.

#### **D. ACCEPTABILITY OF INSURERS**

All required insurance shall be provided by a company or companies licensed to conduct business in the State of Tennessee. Insurance shall be underwritten by insurers with an A.M. Best Company ratings no less than an A.

#### **E. VERIFICATION OF COVERAGE**

The Vendor shall furnish the Town with Certificates of Insurance reflecting proof of required coverage. The Certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. **The Certificates are to be received and approved by the Town before work commences and upon any contract renewal thereafter.**

Upon failure of the Vendor to furnish, deliver and maintain such insurance as requested, this contract, at the election of the Town, may be suspended, discontinued or terminated. Failure of the Vendor to purchase and/or maintain any required insurance shall not relieve the Vendor from any liability or indemnification under the contract.

The Certificate of Insurance naming the "Town of Smyrna" as **Additional Insured** shall be addressed to the attention of:

Town of Smyrna  
Department of Safety & Risk Management  
ATTN: Kay Charles  
315 S Lowry St  
Smyrna, TN 37167

The Town reserves the right to request complete certified copies of all required insurance policies at any time.

## **F. SUBCONTRACTORS**

Vendor shall include all subcontractors as insureds under its policies **OR** shall be responsible for verifying and maintaining the Certificates provided by each subcontractor. Subcontractors shall be subject to all of the requirements stated herein. The Town of Smyrna reserves the right to request copies of subcontractor's Certificates at any time.

## **G. WORKERS' COMPENSATION INDEMNITY**

In the event Vendor is not required to provide or is exempt from providing workers' compensation coverage, the parties hereby agree that Vendor, its owners, agents and employees will have no cause of action against, and will not assert a claim against the Town of Smyrna, its elected and appointed officials, agents, employees and volunteers, under any circumstances. The parties also hereby agree that the Town of Smyrna, its elected and appointed officials, agents, employees and volunteers shall in no circumstance be, or considered as, the employer or statutory employer of Vendor, its owners, agents and employees. The parties further agree that Vendor is a wholly independent vendor and is exclusively responsible for its employees, owners, and agents. Vendor hereby agrees to protect, defend, indemnify and hold the Town of Smyrna, its elected and appointed officials, agents, employees and volunteers harmless from any such assertion or claim that may arise from the performance of this contract.

## **HOLD HARMLESS AND INDEMNITY REQUIREMENT:**

Vendor shall indemnify and hold harmless, to the maximum extent permitted by law, the Town of Smyrna and its officers, agents, employees, volunteers, from and against any and all liability, damages, losses, (whether in contract or in tort, including personal injury, accidental death or property damage, and regardless, of whether the allegations are false, fraudulent or groundless), and costs (including reasonable attorney's fees, litigation, arbitration, mediation, appeal expenses) which in whole or in part are caused by the negligence, recklessness or intentional wrongful misconduct of the Vendor and persons employed by or utilized by the Vendor in Vendor's performance of this Agreement.

The vendor further agrees to protect, defend, and save the Town, its elected and appointed officials, agents, employees and volunteers while working in the scope of their duties as such, harmless from and against all claims, demands, and causes of action of any kind of character, including the cost of their defense, arising in favor of the vendor's employees or third parties on account of bodily or personal injuries, death or damage to property arising out of services performed or omissions of services or in any way resulting from the acts of omissions of the vendor and/or its agents, employees, subcontractors, representative of the Town under this agreement.

Pursuant to Tennessee Attorney General Opinion 93-01, the Town will not indemnify, defend or hold harmless in any fashion the Vendor from any claims arising from any failure, regardless of any language in any attachment or other document that the Vendor may provide.

**APPLICABLE LAW:**

Any contract resulting from this ISQ shall be governed by and construed under the laws of the State of Tennessee.

**SECTION II - SPECIFICATIONS AND PRICE QUOTATION FOR AERIAL EQUIPMENT**

The Town of Smyrna requests quotations on equipment for the Fire Department. Equals must be approved prior to bid opening by Asst. Chief James Lawrence or Asst. Chief Ferris Belcher. Items may be returned without a re-stocking charge. All items should meet or exceed N.F.P.A. standards. Submit manufacturer’s specifications on equipment being quoted. The Town reserves the right to select the best individual unit price.

**EQUIPMENT**

- 1. Blackhawk DE-911 6 lb flathead axes with yellow handles. The DE 9-11 Series Rescue Axes offer an electrically non-conductive to 100,000 volts AC, advanced polymer handle system combined with drop-forged, heat-treated carbon steel head.

QTY	PRICE EACH	TOTAL COST
4	_____	_____

- 2. Blackhawk DE-911 6 lb pick head axes with yellow handles. The DE 9-11 Series Rescue Axes offer an electrically non-conductive to 100,000 volts AC advanced polymer handle system combined with drop-forged, heat-treated carbon steel head.

QTY	PRICE EACH	TOTAL COST
3	_____	_____

- 3. Bracket Holder - Chrome Plated Axe Holder Bracket Kit. Two-Piece chrome plated axe holder w/Spring Tension Clips

QTY	PRICE EACH	TOTAL COST
2	_____	_____

- 4. 6’ Zico Model IBM – 6 with MPH pike head, yellow

QTY	PRICE EACH	TOTAL COST
2	_____	_____

- 5. 8’ I-Beam Pike Poles – yellow

QTY	PRICE EACH	TOTAL COST
2	_____	_____

6. 12' I-Beam Pike Poles – yellow

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

7. D handle closet hooks – yellow Zico Model #: CH-32-PC. 32" closet hook with MPH head.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

8. Paratech 36" Hooligan Tool with standard claw. Include Zico mounting bracket Model # MB-SQB. Mounting bracket set mounts the QUIC-BAR style tools with the pointed surfaces toward the wall or mounting surface.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

9. 12 lb. sledge hammers with 36" yellow handle.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

10. Koehler™ Bright Star™ Right-Angle Responder™ Flashlight - Features an interchangeable power supply—ideal for emergency situations. Manufacturer: Koehler™ Bright Star™ 500221. UL Class I, Division 1 , Group D Operating Temp T3 approved

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
6	_____	_____

11. Scott mask – AV – 3000 sure seal with voice amp bracket for epic voice amplifier. It shall include: downward and peripheral vision, enhanced clarity of voice communication through larger dual voicemitters, Nose cup comfort design, Easy slip on 6 point Kevlar quad adjustment head harness, Dual adjustment spectacle kit, Omni-mount bracket design to allow for face piece and transmitting communication equipment interface to be on either voicemitter, a simplistic clam shell design to significantly decrease part change out. Must be NIOSH and NFPA approved.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>10 Large</b>	_____	_____
<b>5 Medium</b>	_____	_____



12. Scott AV-3000 Series Eyeglass kit - Part # 805753-01

QTY	PRICE EACH	TOTAL COST
6	_____	_____

13. Scott SCBA Ez-Flo Regulator with Quick Disconnect & HUD –Mask-Mounted Regulator

- An optional regulator shall be available with a quick connect coupling in line for use with the optional outlet manifold and accessory hose to allow the breathing regulator to be disconnected from the unit and reconnected to the auxiliary hose of a second unit in the event rescue is required.
- The optional quick connect coupling shall be easily connected and disconnected by trained individuals with a gloved hand and/or in low light conditions.
- The optional coupling shall also be guarded against inadvertent disconnect during use of the equipment.
- The low-pressure hose shall be equipped with a swivel attachment at the face piece mounted regulator.
- The regulator shall connect to the face piece by way of a quarter (1/4) turn coupling.
- The user shall hear an audible sound when the regulator is attached correctly to the face piece.
- The regulator shall be equipped with a doughnut-shaped gasket which provides a seal against the mating surface of the face piece.
- The regulator cover shall be fabricated of a flame resistant, high impact plastic.
- The breathing regulator shall have a demand valve to deliver air to the user, activated by a diaphragm responsive to respiration.
- The demand valve shall use an extended temperature range dynamic O-ring seal composed of a fluorosilicone elastomer.
- The diaphragm shall include the system exhalation valve and shall be constructed from a high strength butyl elastomer.
- A purge valve shall be situated at the inlet of the breathing regulator and shall be capable of delivering airflow of between 125 and 225 standard liters per minute.
- The breathing regulator shall be designed to direct the incoming air through a spray bar and over the inner surface of the facepiece lens for defogging purposes.
- The components of the breathing regulator shall be constructed of materials that are not vulnerable to corrosion.
- The flame resistant cover shall contain an air saver switch and pressure demand bias mechanism.
- The regulator shall reactivate and supply air only in the positive pressure mode when the wearer affects a face seal and inhales.
- This device shall not affect the breathing flow through the system while in operation.

QTY	PRICE EACH	TOTAL COST
5	_____	_____

14. Scott RIT-Pak 111 with 4.5 60 minute cylinder. Unit will work with Scott Air pak 75 Model 4.5. Mask will be an AV3000 sureseal Large.

QTY	PRICE EACH	TOTAL COST
1	_____	_____

15. 14 oz. vinyl salvage covers 12' x 18'. Certified flame resistant. Must meet NFPA 701. Made of 14 ounce flame, water and rot resistant material. Waterproof. Tear resistant. Punctures will not spread. Weatherproof. Resists UV and mildew. Performs well in extreme temperature environments hot or cold, Cleanable - soap and water will remove dirt, grease, oil stains and surface mildew on nylon/vinyl covers.

QTY	PRICE EACH	TOTAL COST
8	_____	_____

16. Spanner wrench sets with hydrant wrenches and mounting brackets Red Head style 148-3 with style 148 holder, one style 105 hydrant wrench and two (2) Style 101 spanner wrenches.

QTY	PRICE EACH	TOTAL COST
4	_____	_____

17. Pair of 36 inch bolt cutters with mounting brackets. 36" Hi-tensile bolt cutter. Zico Model #: HIT-900-R. 36" Hi-tensile bolt cutter: Specially treated to cut harder material like chain, links, high tensile bolts, pre-stressed concrete wire, tempered spring steel wire. Cuts up to Brinell 450 and Rockwell C-48. Exceeds GGG-740d Federal Specs. The HIT-900-R cuts up to 11/32". Zico mounting brackets. Model BCB Bolt cutter bracket: Designed for use with 18" to 36" bolt cutters, with adjustable stop and pin. Utility straps hold the bolt cutter handles firmly in place. One each BCB-FS-05 fixed strap and one each BCB-VS-0565 variable strap shall be provided with each bracket.

QTY	PRICE EACH	TOTAL COST
1	_____	_____

18. DIRECT CONNECT ADAPTER. Elkhart D-327A ( Elk-O-Lite 2 1/2" female x 1 1/2" Male. With Pyrolite® construction and a tapered waterway for reduced turbulence

QTY	PRICE EACH	TOTAL COST
6	_____	_____

19. Ladder belts: Gemtor Ladder/escape pompier belt model 531. 2 medium, 2 large and 2 XL. Belts made of specially woven, high strength nylon webbing, lock stitched with high tenacity nylon thread, 3" wide buckle strap, 5" wide body pad, Double tongue buckle for fast engagement and release of the belt. Zinc plated steel Pompier hook with automatic, one-hand twist lock operation. Hardware meets 50 hour salt spray test, UL classification.

QTY	PRICE EACH	TOTAL COST
6	_____	_____

20. 1200 foot red and white life safety rope material: 100% nylon type 6.6, construction: Block creel, static kernmantle. Temperature: melt point 480 degrees F (240 C). Lengths: 1 foot to 1,200 feet (1 meter to 365 meters). Certification: UL classified to NFPA latest edition. Elongation: 1.5% at working loads and less than 18% at minimum breaking strength. Diameter Inch (mm): ½" (12.5), Min. Strength lb. (kN): 9,500 (42), Weight lb./100ft: 7.5

QTY	PRICE EACH	TOTAL COST
1200 ft.	_____	_____

21. Rescue Tech Rope Bag - Rescue red rope bags model 80131X, Standard features: Constructed of heavy duty water resistant Cordura nylon sides and nearly-indestructible Ballistic Nylon bottom. Side seams of bags are double stitched so that no fabric edges are exposed for fraying. Bottom seam is double stitched and webbing reinforced for superior strength and resistance to abrasion. Drawstring closure with cord lock. Accommodates rope and or equipment. Has unique inside log book pouch. Handles connected to interior. Grommet on bottom allows drainage.

QTY	PRICE EACH	TOTAL COST
4	_____	_____

22. Rescue Tech Rope Bag - Rescue black rope bags model 80131X, Standard features: Constructed of heavy duty water resistant Cordura nylon sides and nearly-indestructible Ballistic Nylon bottom. Side seams of bags are double stitched so that no fabric edges are exposed for fraying. Bottom seam is double stitched and webbing reinforced for superior strength and resistance to abrasion. Drawstring closure with cord lock. Accommodates rope and or equipment. Has unique inside log book pouch. Handles connected to interior. Grommet on bottom allows drainage.

QTY	PRICE EACH	TOTAL COST
4	_____	_____

23. Double female 2 ½" adapters with NST threads – Red Head style 35 double swivel female.

QTY	PRICE EACH	TOTAL COST
2	_____	_____

24. Double male 2 1/2" adapters with NST threads – Red Head style 36 double male.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

25. Double female 1 1/2" adapter with NST threads – Red Head style 35 double swivel female.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

26. Double male 1 1/2" adapter with NST threads – Red Head style 36 double male.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

27. 18" Super Vac gas powered fan – Model 718G4H with a 6.5 horsepower Honda motor.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

28. Hose Hoist - Akron style 583. Akrolite construction. For raising hose, ladders, etc. to and from the roof.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

29. Fire Hose - 800' of 1 3/4" cloth double jacketed hose. 50 ft. sections, polyester double jacket attack grade hose, MTFSS Hose with Red Head Coupling NST, white in color. Meets all current NFPA Standards.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
800 ft.	_____	_____

30. Hose clamp with mounting brackets – Clamp must fit up to 4 inch hose.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

31. Hose jacket – Akron style 773. Akrolite Body, molded neoprene liner, fits hose size 3 1/2" to 3 3/4" OD. Supplied with Mounting Peg.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

32. Elkhart 2.5" Wat-r-wall Nozzles. Cast brass construction, 2.5" free swivel inlet, 2.5" male outlet with cap and chain (can be removed to extend line), Flows 100 GPM (380 L/min) @ 100 psi, Finish chrome plated.

QTY	PRICE EACH	TOTAL COST
2	_____	_____

33. Hydrant valve – Akron style 2285, pyrolite with non-rising stem and crank handle for easier operation at standard operating pressures.

QTY	PRICE EACH	TOTAL COST
2	_____	_____

34. Hose straps – Akron style 78, secures hoses up to 3" on ladders, fire escapes, etc. and aids in the handling of fire hose. Anodized aluminum fittings with 1" wide, flat, water resistant nylon webbing. Fits ladder rungs up to 2" OD.

QTY	PRICE EACH	TOTAL COST
4	_____	_____

35. 1½" Elkhart select-o-matic nozzles SM-30FG. Select-0-Matic® with pistol grip nozzles automatically and instantly adjust to fluctuating water flow, assuring efficient and effective firefighting streams. These automatic nozzles have a stainless steel, spring mechanism that helps to maintain constant pressure. Constructed of rugged light-weight aluminum alloy, all Select-0-Matic® automatic nozzles that have a hard anodized finish for protection from damaging elements. All Select-0-Matic® hand line nozzles have replaceable spinning teeth and a shutoff feature that utilizes a hydraulically balanced celon ball with an adjustable neoprene seat. This combination makes it almost impossible for the nozzle to slam shut accidentally while remaining easy to open and close - even at high pressures. The shut-off also has a durable handle, cast aluminum bronze, with double stops. Select-0-Matic® automatic nozzles have a compact design, superior stream quality and easy field maintenance.

QTY	PRICE EACH	TOTAL COST
7	_____	_____

36. 2 ½" play pipes with shutoffs and stacked tips – Akron style 2393. Axial play pipe & stacked tips-Pyrolite. 2 ½" Swivel 2420 tips and 2390 play pipe. Orifices – 1", 1 1/8", 1 ¼".

QTY	PRICE EACH	TOTAL COST
2	_____	_____

37. Elkhart model DSM-30FG – Select – o-matic 2 ½ pistol grip nozzle

QTY	PRICE EACH	TOTAL COST
4	_____	_____

38. Cellular nozzles – Akron model 535. 2 ½” Cellar nozzles. 9 variable angle orifices, 3 of ¼” and 6 of 13/32”. Meets ISO requirements. 250 gpm at 100 psi.

QTY	PRICE EACH	TOTAL COST
2	_____	_____

39. 6” NHT to 4” storz piston intake valve. - Elkhart model 9786 elk-o-lite. Hand wheel activated metal piston. Adjustable relief valve from 75 to 250 psi. Drop angle 35 degree below horizontal. Air bleeder valve. Retractable hand wheel knob.

QTY	PRICE EACH	TOTAL COST
1	_____	_____

40. Large diameter spanner wrenches – Kocheck Model KS34 with holder ( Has 4 wrenches )

QTY	PRICE EACH	TOTAL COST
1	_____	_____

41. AED – Cardiac Science Power Heart AED G3 model # 9300E-101

QTY	PRICE EACH	TOTAL COST
1	_____	_____

42. Foam nozzle – Akron model 3952. 1 ½” swivel inlet, 95 gpm.

QTY	PRICE EACH	TOTAL COST
1	_____	_____

43. One (1) Akron model 2127 handle. Shutoff with pistol grip 1 ½” swivel inlet x 1 ½” male

QTY	PRICE EACH	TOTAL COST
1	_____	_____

44. One (1) 2 ½” to 1 ½” gated wye – Akron model 2581. Leader line wye. 2 ½” female inlet x two 1 ½” male outlets.

QTY	PRICE EACH	TOTAL COST
1	_____	_____

45. 25' 3" red vinyl nitrate hose fill line with 2 1/2" NST Red Head couplings

QTY	PRICE EACH	TOTAL COST
1	_____	_____

46. Q Ray 2 (4 gas monitor) with Reliable plug-in "smart" sensors: Combustible, Oxygen, Hydrogen Sulfide, Carbon Monoxide, Robust external casing for harsh environments, including a strong protective rubber boot, water and dust resistance, rugged ABS plastic/metal case, and protection from portable radio interference (RFI). Ease of use with one-hand operation; one button calibration with auto zero capability, Strong built-in sample draw pump, with a flow rate at 150cc/min optional and collapsible remote sampling probe, prevents liquid flow into monitor and its patented security mechanism warns of sample tube crimping or blockage, Option of Li-ion, alkaline, and automotive 12V adapter charger, Field replaceable batteries, Unit will run and charge simultaneously, large keys are operable even with three layers of gloves, loud audible alarm, bright visual alarm, standard 20,000 point (or 100 hours) data logging storage capacity for download to PC (compatible with Windows 98, NT, 2000, and XP).

QTY	PRICE EACH	TOTAL COST
1	_____	_____

47. Blue Bullard T-4 Max Thermal Imager cameras with truck mount system.

I. Warranty

The manufacturer shall warrant the thermal imager free of defects in material and workmanship, under normal use and service, for a period of one year from delivery. In addition, the imager's outer shell or housing shall carry a limited lifetime warranty.

II. Service

The manufacturer must be located in the U.S.A. and provide a full-service repair center in the U.S.A. to ensure timely and efficient processing of any service related issues concerning the imager. Warranty repairs must carry a guaranteed 48-hour turnaround (2 full business days) from the time of receipt at the service center to the time that the manufacturer ships the imager. Non-warranty repairs must carry a guaranteed 48-hour (2 full business days) turnaround from the time the manufacturer receives purchase order authorization to complete the repairs to the time the manufacturer ships the imager. Upon request, the manufacturer must provide the names and contact information for three (3) fire departments that can serve as references, verifying that the manufacturer complies with this requirement.

III. Quality

The manufacturer must ensure quality, design and manufacturing methods through third party certification to ISO 9001 or its equivalent. To ensure that the product is of the highest quality, documentation must be presented illustrating that a battery of tests that have been conducted to verify water resistance, heat resistance and shock/impact resistance.

IV. Physical Configuration

The imager shall be a hand-held design, having a 4.3-inch LCD display screen and two side straps (one on each side of the imager). A combination wrist/gear strap shall accompany the imager. Total weight of the imager shall not exceed 4 lbs. with the standard battery installed. The imager shall ship in a padded, re-usable delivery case. The imager shall ship standard with two rechargeable batteries, a battery charger with AC and DC adapters, and an interactive multimedia orientation/training CD-ROM. The imager's physical dimensions shall be no more than eight (8) inches tall, six (6) inches wide and six (5.5) inches long. The imager must contain an integral threaded connector to mount on a standard tripod.

V. Durability

The imager shall remain operational after being submerged under 3 feet of water for 30 minutes. The Thermal Imager shall withstand a 6-foot drop in any orientation and sustain no operational damage. The manufacturer must perform these tests in front of designated department representatives at a mutually determined time and location. Failure to perform these tests in front of designated department representatives shall constitute non-compliance with this portion of the specification.

VI. Technology

The imaging technology shall be 320 x 240 pixel un-cooled amorphous silicon microbolometer detector. To ensure reliability, the detector must be designed and manufactured by a company that has provided, for at least three (3) years, detectors used in the fire service. A detector from a company without three (3) years experience in the fire service is not equivalent. The Noise Equivalent Temperature Difference (NETD) shall be less than 50 mK. The imager shall exhibit an ability to evade whiteout when pointed directly at flames or the sun. The detector shall operate across core temperature ranges of -20°C to 85°C. The dynamic range of the detector and associated electronics shall be 600°C ( $\pm 25^\circ\text{C}$ ). The imager shall provide surface temperature measurement taken directly from the detector. To ensure safety, temperatures shall be displayed in a graphical form rather than numerically. Preference will be given to bar graph-type graphics on the right side of the display screen. The temperature display must indicate temperatures as high as 1200°F. The imager shall have a colorization mode, active only in its low gain setting that colors items in three colors based on their temperatures. The system shall activate at 500°F with yellow colorization. The colorization shall use orange for items at least 250°F hotter than the activation temperature. The system shall use red colorization for objects above 1000°F. Colorization must occur in gradations, meaning that each color appears in multiple shades based on the actual temperature of the object.

VII. Outer Housing

The imager shall be ergonomically designed and the outer shell or housing must be manufactured from heat resistant Ultem thermoplastic. Due to the likelihood of rigorous use, the Ultem must be molded with color pigment throughout to mask small surface scratches. Outer shells or housings that are painted or otherwise lack consistent color through their entire thickness are not equivalent. The interior surfaces of the outer shell or housing shall be coated with a conductive electromagnetic interference (EMI) shielding material.



### VIII. Colors

The imager should be available in no less than seven scratch resistant colors to allow for color-coding as needed by the department. Colors shall include, at a minimum: Red, Yellow, Black, White, Orange, Blue, and Lime-Yellow.

### IX. Monitor/Screen

The imager shall have a 4.3" diagonal LED backlit Liquid Crystal Display (LCD) screen. It shall have a minimum pixel range of 130,560 and a dot format of 480 x 272 dots for high quality resolution. The screen must be visible in thick smoke to both the operator and nearby firefighters from a variety of distances from the face, including arms length. In addition, the display screen must be protected by a clear polycarbonate cover. This cover must be field replaceable and watertight.

### X. Lens

The imager shall possess an f/1.0 lens fabricated of germanium. The lens shall be protected with a watertight, sealed 2 mm thick germanium cover window.

### XI. Visual Indicators

The imager shall have only one LED-indicator system to promote maximum ease-of-use. This indicator shall display battery life via five LED's: three green, one yellow and one red.

### XII. Switches

The imager shall use one switch to activate the unit. The switch must be recessed and protected to avoid accidental shut-off. The imager shall also be equipped with a pair of switches that activates a special colorization mode, which helps the user identify the hottest objects in a scene. This colorization mode must be manually adjustable by the user and colorize the hottest objects in a scene with a color that is unique to this mode. This system provides extreme value during overhaul and investigations, therefore imagers that do not have a manual mode will not be considered equal. To ensure firefighter safety and avoid confusion, thermal imagers that use yellow, orange or red to identify hot objects (other than required in Section VI) will not be considered equal. The imager shall be equipped with a switch to activate a 2x and 4x digital zoom. The switch shall be recessed and protected to avoid accidental activation.

### XIII. Strap Systems

The strap system must be field replaceable and shall be constructed with the following: A. The side straps, one on each side of the imager, shall be made primarily of Kevlar. The side straps must be adjustable and must include a metal D-ring. To improve safety, the side straps must have reflective trim. B. The combination wrist and gear strap shall be made primarily of Kevlar. This strap shall include two metal carabineers and a quick-release buckle that frees the imager from the strap. An optional self-retracting strap must also be available for the imager. The self-retracting strap must retract fully with the full weight of the imager (with battery) hanging unsupported from the strap.

### XIV. Power Supply

A minimum of two (2) rechargeable batteries shall accompany each imager. Each battery shall be a 10-volt nickel metal hydride (NiMH) cell, providing a minimum of

three hours of continuous use with all standard functions and features. Each battery must be capable of a minimum of 1,000 charges. The battery shall have an Ultem outer shell. The battery shall eject from the imager only when two opposing battery release buttons are pressed simultaneously. The battery must be capable of being loaded into the housing only one way and must be easily inserted and removed by a person wearing standard firefighting gloves. A lithium ion battery is an unacceptable substitute for NiMH due to lithium's higher risk of explosion when exposed to high heat. An AA alkaline battery case must also be provided for the imager. The case must load and secure into the imager in the same manner as the standard NiMH battery. It must also be constructed from Ultem.

#### XV. Operation

The imager must be fully operational no more than four seconds after activating the power switch. The imager must not have a standby switch or mode.

#### XVI. Wireless Transmission

The manufacturer shall offer an optional wireless remote transmitter compliant with FCC part 90 while operating at a frequency range of 2.4 GHz. The wireless transmitter must come as a two (2) channel unit. The transmitter and a dipole antenna shall be housed inside an attachable handle, protecting the transmitter and antenna from possible damage while giving the department the option to disengage the transmitter. Attaching the transmitter handle must not increase the width of the imager by more than one (1) inch. Each wireless unit must have a receiver and antenna able to receive a signal from at least 600 feet through common Type V construction. To ensure mobility at an emergency incident, the manufacturer must offer an optional receiver system that operates on the same batteries as the imager. This optional receiver must also weigh less than 2.5 lbs. and be a self-contained unit, including receiver, antenna, channel switch, video display and power supply.

#### XVII. Truck Mount

The manufacturer must provide a truck mounted charging system to mount the imager and internal charging system in a vehicle or fire apparatus, or on the wall of a fire station. The charging system shall come standard with all necessary mounting hardware, a direct charge system, and power cords that enable the use of a DC power supply. The system must charge the battery in the imager at the same time it charges a spare battery. The battery in the imager must be charged through contacts on the imager. No cables or wires connecting the imager to the charging system are acceptable. The system must be compliant to NFPA 1901 when properly mounted in a vehicle or fire apparatus. The charger must include a separate storage compartment large enough to hold a spare battery or AA alkaline battery pack.

#### XVIII. Training

A product familiarization class will be available through the manufacturer's authorized distributor. To ensure the highest quality training materials, the manufacturer must have at least two full-time employees dedicated to developing and delivering thermal imaging training. To qualify, the employee must have at least ten years of active firefighting experience and must be certified as a thermal imaging instructor by an internationally recognized organization that specializes in thermal imaging for public safety organizations. The employee must also spend at least 75%

of his/her time on thermal imaging training programs. This training will be conducted on 3 consecutive days that will be scheduled by the purchaser.

**XIV. Delivery**

The manufacturer shall deliver the thermal imager and all ordered accessories in 30 days or less after receiving the purchase order.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

48. Mobile Link Handheld Receiver for Bullard T-4 Max Camera. Part numbers: ML1 2-channel mobile link with 2 batteries, battery charger, and AC/DC adaptors. A handheld, self-contained receiver/monitor system that uses the same batteries as the thermal imager. The handheld receiver/monitor system must operate for a minimum of 2 hours on the standard battery and the video display must be a minimum 3.5 inch viewable.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

49. Scene catcher version 2.0 - 2 channel Transmitter System With digital and still picture with record option. Part numbers: SS Scene catcher DVR SSTRANS2 Scene Catcher DVR and 2-channel transmitter. The manufacturer shall include a wireless remote transmitter compliant with FCC part 90 while operating in the 2.4 GHz frequency range. The wireless transmitter must come as a two (2) channel system. The transmitter and a dipole antenna shall be housed inside an attachable handle, protecting the transmitter and antenna from possible damage while giving the department the option to disengage the transmitter. Attaching the transmitter handle must not increase the width of the imager by more than one (1) inch. Each wireless unit must have a receiver and antenna able to receive a signal from at least 600 feet through common Type V construction. The manufacturer must have available with the wireless transmitter, the following: A complete receiver/monitor/video recorder system integrally mounted inside a hard shell carrying case. The system must utilize an independent battery source or operate from external 12 volt DC or 110 volt AC power. The system shall operate on the internal battery for at least 3 hours on a single charge. The video display must be a minimum 15.4 inch viewable, and the recorder must use removable digital media for ease of maintenance and transfer to another computer. Continuous time and date stamp shall be displayed on recorded video for documentation purposes. A handheld, self-contained receiver/monitor system that uses the same batteries as the thermal imager. The handheld receiver/monitor system must operate for a minimum of 2 hours on the standard battery and the video display must be a minimum 3.5 inch viewable. The manufacturer must offer a digital video recorder, housed in an attachable handle, capable of recording over 60 minutes of video and over 300 still images and operate seamlessly with the transmitter if so configured. Stored digital video shall download to the user's computer via USB connection. All cables needed for downloads onto a computer must be supplied (1 for each transmitter). Continuous time and date stamp shall be displayed on recorded video or still images for documentation purposes. The digital video recorder shall work seamlessly with the transmission system and grant the user the ability to operate only the transmitter, only the DVR or both simultaneously.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

50. Retractable Straps for Bullard T-4 Max: Designed with the rigors of firefighting in mind, Bullard's extendable strap keeps your Thermal Imager out of the way while crawling and working. Part number: T3RETRACT. Retract strap for all thermal imagers.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
4	_____	_____

51. K- Tool Kit with 6" Shove Knife. Designed to pull all types of lock cylinders (rim or mortise) from the various glass type or solid doors.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

52. Quickfit Sprinkler Shutoff – Akron 1078

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
4	_____	_____

53. Traffic Cones – 28" Collapsible pop up cones. LED light with Flash and Steady modes, 10" x 10" Base, 4" & 6" reflective collars, 5 cone kit, Each 28" collapsible cone weighs approx. 4 lbs., Carrying case included

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

54. Extenda-Lite 500-Watt Portable Hand Light- Akron PL500 - This hand light has a powerful 500 watt (120v) light head that features a new highly polished specular hammertone reflector which almost doubles its' light output. This portable hand light has a sturdy aluminum housing with high temperature carrying handle and tilt control knob. Heavy duty ground tripod base with rubber footings. Standard with prewired 12→ pigtail and L5-15. Heavy-duty chrome-plated wire guard.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
4	_____	_____

55. Indian Tank - DB Smith 500FSV Collapsible Indian Smokechaser Backpack Pump, 5 Gal.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

56. High rise strap – Hose Vice 200. Capacity is 150 or 200 feet of 1 3/4". 3M reflective has been added to increase visibility. With adjustable carry strap.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

57. Extinguisher – 20lb ABC

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

58. Extinguisher – 2.5 Gallon Water

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

59. Extinguisher – 10lb CO2

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
1	_____	_____

60. Quick Fist Tool Mounting Assortment – Item #90099, 42 Clamps-Five Different Sizes in One Package.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2 Packages	_____	_____

61. Grass Flapper- FLAMEFIGHTER- Heavy Duty Fire Flapper with 5 foot fiberglass handle

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
2	_____	_____

62. Mounting Plate - QL48Z, 2.5 QUICLOC MT PLATE ZINC CP

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
12	_____	_____

63. Pulley - RNR Poseidon Series Prusik Minding Pulley w/Aluminum Sheave & Aluminum Side Plates. Style will be single. 3 inch.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
6	_____	_____

64. Hooks - OMEGA PACIFIC, Auto Locking Gate Ladder Hooks.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
9	_____	_____

65. Firefighter Irons Sling Carrying Strap- Brand Milwaukee Iron Strap fit to carry hooligan and axe together.

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
9	_____	_____

66. Cutters edge multi cut ventilation saw with 24 inch bar. CE2188RSD10R

Unit will include:

- a. Operation and Maintenance manual.
- b. Bullet Chain (Extra)
- c. 2 Tree Cutting Chains

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>1</b>	_____	_____

67. Pinch Point Bars – Akron PPB-36

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>1</b>	_____	_____

68. Pinch Point Bar Bracket – Akron PPBH

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>1</b>	_____	_____

69. Shelby Extrication Gloves. Model 2500 2 of Medium, 2 Large, 2 X-Large

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>6</b>	_____	_____

70. MPC 40PF Air-Purifying Cartridge – Scott Health and Safety

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>20</b>	_____	_____

71. Scott AV – 3000 First Responder Adapter – Part # 200423-01

<b>QTY</b>	<b>PRICE EACH</b>	<b>TOTAL COST</b>
<b>20</b>	_____	_____

**TOTAL OF ALL UNIT PRICES**

\_\_\_\_\_

**GRAND TOTAL FOR ALL ITEMS**

\_\_\_\_\_

