City of Wynne

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The Wynne Fire Department is accepting bid packages on the items listed below. Additional specifications are on pages two through seven of this package.

Bids may be submitted to Fire Chief Kory Ward, in person at 1111 N. Falls BLVD Wynne, AR or via email to kward@cityofwynne.com, or to Meredith McKnight, in person at 206 S. Falls BLVD Wynne, AR or via email to mmcknight@cityofwynne.com.

Item	Quantity
32" lighted handle spreader w/2, 9 amp hr batteries	1
Lighted rotating handle cutter w/2, 9 amp hr batteries	1
Two stage telescopic ram w/2, 9 amp hr batteries	1
Extended reach tips (pair)	1
4 bank battery charger	1
Quick adjust chain pkg	1
Horizontal tool mount 320 spreader	1
Horizontal tool mount 750 cutter	1
Horizontal tool mount 500 ram	1
71/4" circular saw 2/9 amp hr batteries,charger and bag	1
Telescopic light tower w/1 9 amp hr battery	1
4.5" 60v angle grinder kit w/diamond rescue blade	1
Hammer drill and impact driver kit	1
Chain saw kit	1
1/2" impact w/1, 9 amp hr battery	1
Twistlock struts	2
Tie down chain cluster	2
Master control kit for ALB's	1
28x28 52.7 ton air bags	2
20x20 25.6 ton air bags	2
Standard step chocks	2
4x4 hybrid crib toter, 9 4x4's in each set (18 total)	1
Step wedge 3-W 3x8.5"	2
4/4-20standard smooth wedge 4x4x20"	2

Battery Ram

Technical Specifications

The vendor shall be responsible for all labor, materials, training, coordination, shipping, transportation and inessentials necessary to deliver battery powered hydraulic cutters, rams, and spreaders, on an as needed basis, to be used in rescue extrication in accordance with the specifications listed below for each tool.

Battery Powered Hydraulic Ram Specifications

The tool consists of multi-stage piston and cylinder arrangement that is hydraulically operated. Hydraulic pressure is applied to piston rods to push or spread objects. Hydraulic power for the tool is generated internal to the tool via a 4- stage hydraulic pump that is operated by a brushless 2200-watt, 60-volt electric DC motor. The DC motor is powered by a 60-volt (maximum initial voltage) lithium ion battery.

- The cylinder, body and housing of the tool shall be made of aluminum alloy for its lightweight, strength, and durability.
- The housing that encloses the motor and pump shall not be constructed of plastic or other non- metallic materials due to the inferior durability and heat dissipation properties of these materials.
- The tool electric motor shall be a minimum of 2hp to maximize durability during extended use/rescues.
- The ram shall automatically turn *off* after no less than 20 minutes of inactivity.
- The battery shall be located on the top of the tool forward of the "dead man" actuator for easy installation/removal and to protect the battery during operation. Batteries mounted at rear of tool are unacceptable.
- The tool shall include the following safety features:
    - A pilot check valve to prevent accidental movement of the piston/shaft in the event of power loss.
    - A "dead man" actuator, whereby the unit stops functioning when the operator releases hand or thumb pressure from the actuator.
    - A pressure relief valve preventing over pressurization.
    - A pressure port that allows a technician to check the output pressure of the pump during routine maintenance.
- The telescopic ram shall have a length of no greater than 22 inches (559 mm) when retracted.
- The telescopic ram shall have a length of no less than 50 inches {127 cm) when extended (without accessory extensions)

- The telescopic ram shall have a Stroke, Piston 1: 15 inches (381mm).
- The telescopic ram shall have a Stroke, Piston 2: 13.5 inches (346 mm).
- The telescopic ram shall have a Highest Spreading Force (HSF) Piston 1: 46,500 lbs. (206.0 **kN).**
- The telescopic ram shall have a Lowest Spreading Force (LSF) Piston 2: 21,750 lbs. (96.0 kN).
- The maximum nominal operating pressure of the tool shall be 10,500 psi (725 bar).
- The preferred independent third party for certifying the tools as compliant to NFPA 1936 is Underwriters Laboratory "UL".
- Weight on the tool shall not exceed 55 lbs. (25 kg) excluding battery.

Battery and Charger Specifications

- The battery shall be a Lithium Ion type battery.
- Due to availability and versatility over a wide range of tools such as, but not limited to, saws, drills, air compressors, etc. Only non-proprietary battery platforms shall be accepted.
- The battery shall be readily available at retail stores within 50 miles (80 km) of Fire Department.
- The nominal electrical voltage supplied by the lithium ion battery shall not be less than 60.0 volt (maximum initial voltage).
- Though a 12 Ah battery is desired, each of the tools shall be capable of utilizing a DEWALT FLEXVOLT 60 volt 6, 9- or 12-amp hour battery.
- The battery shall have a display to illustrate the level of charge.
- Combined, the battery and charger shall recharge the battery without causing harm from excess charging.
- The battery shall have a warranty of no less than 3 years from date of purchase.

32" Battery Spreader

Technical Specifications

The vendor shall be responsible for all labor, materials, training, coordination, shipping, transportation and inessentials necessary to deliver battery powered hydraulic cutters and spreaders, on an as needed basis, to be used in rescue extrication in accordance with the specifications listed below for each tool.

Battery Powered Hydraulic Spreader Specifications

The tool consists of a hydraulically operated piston that symmetrically drives mechanical linkages to open or close two spreader arms. Hydraulic power for the tool is generated internally to the tool via a 4- stage hydraulic pump that is operated by a brushless 2200-watt, 60-volt electric DC motor. The DC motor is powered by a 60-volt (maximum initial voltage) lithium-ion battery. Batteries shall be interchangeable between rescue tools.

- The tool shall be equipped with two LED lights integrated into the forward handle to facilitate work under low light conditions. The lights shall have 3 intensity levels (low, medium, high). The lights shall be fully isolated from the rescue tool battery and be powered using 2 commonly available AA batteries.
- The LED lights shall be controlled by a single switch located on the rotating handle.
- The lights shall be designed to automatically turn *off* after 15 minutes of inactivity.
- The cylinder, body and housing of the tool shall be made of aluminum alloy for its lightweight, strength, and durability.
- The housing that encloses the motor and pump shall not be constructed of plastic or other non-metallic materials due to the inferior durability and heat dissipation properties of these materials.
- The tool electric motor shall be a minimum of 2hp to maximize durability during extended use/rescues.
- The spreader shall automatically turn *off* after no less than 20 minutes of inactivity.
- The battery shall be located on the top of the tool between the forward and rear handles for easy installation/removal and to protect the battery during operation. Batteries mounted at rear of tool are unacceptable.
- The standard tips on the tool shall be stainless steel cast with an aggressive "Gator Grip" pattern that grips sheet metal during operation. The tips shall have beveled edges which prevent sheet metal from tearing during operation. The spreader shall incorporate quick release pushbuttons that enable tips to be changed easily.
- For increased capability and functionality, the tool shall accept optional Extended Reach Tips

which provide an additional 8 inches of spreading distance.

- The tool shall also accept a Quick Adjust Chain Kit for pulling operations
- The tool shall include the following safety features:
  - A pilot check valve to prevent accidental movement of the spreader arms in the event of power loss.
  - A "dead man" actuator, whereby the unit stops functioning when the operator releases hand or thumb pressure from the actuator.
  - A pressure relief valve preventing over pressurization.
  - A pressure port that allows a technician to check the output pressure of the pump during routine maintenance.
- The maximum nominal operating pressure of the tool shall be 10,500 psi (725 bar).
- The tool shall have Highest Spreading Force (HSF) of 15,100 lbs. (67.2 kN).
- The tool shall have Lowest Spreading Force (LSF) of 10,530 lbs. (46.9 kN).
- The tool shall have Highest Pulling Force (HPF) of 11,500 lbs. (51.1kN).
- The tool shall have Lowest Pulling Force (LPF) of 7,580 lbs. (33.7 kN).
- The tool shall have a maximum spreading force of 39,500 lbs. (175.7 kN).
- The tool shall have a maximum spreading distance of 31.9 inches (810 mm).
- The preferred independent third party for certifying the tools as compliant to NFPA 1936 is Underwriters Laboratory "UL".
- The tool dimensions with the battery shall not be any longer than 38.1inches (968 mm), wider than 11.1inches (282 mm) or higher than 11.6 inches (294 mm).
- Weight (excluding battery) 54.6 lbs. (25 kg).
- Weight (ready to use) 57 lbs. (25.5kg).

Battery and Charger Specifications

- The battery shall be a Lithium-Ion type battery.
- Due to availability and versatility over a wide range of tools such as, but not limited to, saws, drills, air compressors, etc. Only non-proprietary battery platforms shall be accepted.
- The battery shall be readily available at retail stores within 50 miles (80 km) of the Fire Department.
- The nominal electrical voltage supplied by the lithium-ion battery shall not be less than 60.0 volts (maximum initial voltage).
- The battery shall have a display to illustrate the level of charge.
- Combined, the battery and charger shall recharge the battery without causing harm from excess charging.

The battery shall have a warranty of no less than 3 years from date of purchase

Large Blade Battery Cutter

Battery Powered Hydraulic Cutter Specifications

The tool consists of a hydraulically operated piston that symmetrically drives mechanical linkages to open or close two cutter blades. Hydraulic power for the tool is generated internal to the tool via a 4- stage hydraulic pump that is operated by a brushless 2200-watt, 60-volt electric DC motor. The DC motor is powered by a lithium-ion battery. Batteries shall be interchangeable between rescue tools.

- The tool shall be equipped with two LED lights integrated into the forward handle to facilitate work under low light conditions. The lights shall have 3 intensity levels (low, medium, high). The lights shall be fully isolated from the rescue tool battery and be powered using 2 commonly available AA batteries.
- The LED lights shall be controlled by a single switch located on the rotating handle.
- The lights shall be designed to automatically turn off after 15 minutes of inactivity.
- The forward handle shall rotate 360 degrees to allow the operator to easily reposition the tool during use and to allow the handle to be moved out of the away during use.
- The cylinder, body and housing of the tool shall be made of aluminum alloy for its lightweight, strength, and durability.
- The housing that encloses the motor and pump shall not be constructed of plastic or other non-metallic materials due to the inferior durability and heat dissipation properties of these materials.
- The tool electric motor shall be a minimum of 2hp to maximize durability during extended use/rescues.
- The cutter shall automatically turn off after no less than 20 minutes of inactivity.
- The battery shall be located on the top of the tool between the forward and rear handles for easy installation/removal and to protect the battery during operation. Batteries mounted at rear of tool are unacceptable.
- The cutter shall include blades that are constructed of solid machined tool steel.
- Blade linkages shall be covered by rubber guard for safety.
- The tool shall include the following safety features:
    - Center bolt heads are flush with tool allowing to fit into tight spaces during operation.
    - A pilot check valve to prevent accidental movement of the spreader arms in the event of power loss.
    - A "dead man" actuator, whereby the unit stops functioning when the operator releases hand or thumb pressure from the actuator.
    - A pressure relief valve preventing over pressurization.
    - A pressure port that allows a technician to check the output pressure of the pump during routine maintenance.

- The maximum nominal operating pressure of the tool shall be 10,500 psi (725 bar).

- The cutter shall have a maximum opening of no less than 7 inches (178 mm).
- Cutting classification should be no less than A8/89/C7/D9/E9/F4 as defined in NFPA 1936:2020.
- The preferred independent third party for certifying the tools as compliant to NFPA 1936 is Underwriters Laboratory "UL".
- The tool dimensions with the battery shall not be any longer than 34 inches (864 mm), wider than 9 inches (229 mm) or higher than 12 inches (305 mm).
- Weight on the tool shall not exceed 55 lbs. (25 kg) excluding battery.

Battery and Charger Specifications

- The battery shall be a Lithium-Ion type battery.
- Due to availability and versatility over a wide range of tools such as, but not limited to, saws, drills, air compressors, etc. Only non-proprietary battery platforms shall be accepted.
- The battery shall be readily available at retail stores within 50 miles (80 km) of the Fire Department.
- The nominal electrical voltage supplied by the lithium-ion battery shall not be less than 60.0 volt (maximum initial voltage).
- The battery shall have a display to illustrate the level of charge.
- Combined, the battery and charger shall recharge the battery without causing harm from excess charging.
- The battery shall have a warranty of no less than 3 years from the date of purchase.