

Jamestown Rural Fire Department

Bid Specifications for 3000 gallon tanker-pumper

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Bid opening will be held at Jamestown Rural Fire Department. Address: 205 3rd Ave NW, Jamestown. Monday, September 22nd at 5pm. This Truck will meet NPFA specifications for new fire apparatus Tanker –Pumper.

Bids shall be sealed in separate envelope and contain:

1. Chassis Specifications
2. Truck Body Specifications
3. Estimated Delivery or Completion Date
4. Vendor shall also indicate if truck is to be delivered to fire dept or if it is the responsibility of dept to pick up apparatus.
5. Warranty Information
6. Dimensions of truck design and or drawings if applicable.
7. Bid Price and Options price sheet for optional equipment truck layout.

***New Fire Apparatus are being considered as well as Demo Unit Trucks, as long as they meet departments' specifications or vendor is willing to customize fire truck to fire department needs.**

Section 1: Booster Tank

- 1.00 The 3000 gallon poly tank shall meet all NFPA baffling requirements.
- 1.01 Tank shall carry a lifetime warranty from its manufacture.
- 1.02 There shall be a 3” clean out pug on bottom of tank.
- 1.03 There shall be a manual fill tower on top of tank
- 1.04 There shall be a combination vent/overflow pipe to dump out water behind the rear wheels.
- 1.05 There shall be an access ladder or steps on rear of tank to access top of truck, shall be nfpa compliant steps or ladder.

Section 2: Booster Tank Piping, Fills, & Guages

- 2.00 Direct Fill, there shall be a 4” direct tank fill on the rear of the tank, dept would like alternate pricing for a 4” butterfly valve with 5” storz connection and elbow, or TFT piston intake (4”NST X 5” storz).
- 2.01 Shall include (1) 5” storz X 2.5” NST female swivel adptr.
- 2.02 Shall include (2) LED tank gauges, 1 at pump panel, 1 on rear of truck.
- 2.03 Spanner and hydrant wrenches, There shall be one set of hydrant wrench and 2 spanner wrenches mounted on rear of truck, and (2) two spanner wrench sets mounted on either side of pump compartment housing.
- 2.04 There shall be one set of storz wrenches also mounted on rear of apparatus.

Section 3: Dump Valves & Chutes

- 3.00 Truck shall be outfitted with a 10” quick dump with the ability to dump from rear, right, or left side of truck. This can be achieved by having three separate dumps or one swivel dump.
- 3.01 All dumps will be equipped with a flip chute or telescoping chutes to provide clearance between truck and drop tank.

Section 4: Drop Tank Carrier

- 4.00 Drop tank carrier shall be large enough to accommodate a 3500 gallon drop tank.
- 4.01 Drop tank carrier shall be automatic Zico Lift.
- 4.02 Drop tank carrier shall be priced as open in the middle. (Please include optional pricing for enclosing the carrier).
- 4.04 Drop Tank carrier is to be located on the passenger’s side.
- 4.03 The 35000 gallon drop tank to be provided by Jamestown Rural Fire Department.

Section 5: Apparatus Body and Components

- 7.00 Body should be of wetside design (preferred), Other designs will be taken into consideration.
- 5.01 Body sub-frame shall be made to industry standards to insure highest quality and strength to body of truck.
- 5.02 Department will take all bids on either All Poly bodies and compartments or Aluminum Body and compartments.
- 5.03 There shall be an aluminum rub rail installed on the bottom edge of truck and rear fender.

- 5.04 There shall be a minimum of (1) rear tow eye on the rear of the truck attached to the truck frame.

Section 6: Apparatus Body Compartments

- 6.00 Sweep out style compartments shall be provided on both the drivers and passengers' side in front of the rear wheels.
- 6.01 Compartments are to be as large as possible.
- 6.02 Additional compartments at the rear drivers and passengers side behind rear wheels if body configuration allows.
- 6.03 Compartment doors shall be equipped with roll-up doors and LED compartment lights.
- 6.04 Compartments will have Turtle Tile plastic dry decking.

Section 7: Running Boards, Catwalks, & Rear Step

- 7.00 Catwalks shall be located above the left and right compartments. The catwalks shall be made of polished aluminum Tread-Brite and bent to provide a drip rail.
- 7.01 Rear step or ladder shall be nfpa compliant.

Section 8: Grab Rails & Foot Steps

- 8.00 There shall be (2) 36" vertical grab rails provided at the rear of apparatus.
- 8.01 There shall be horizontal grab rails by all above pump compartment or above tank hose beds or cross lays for the ease and safety of loading and unloading the hose.
- 8.02 Steps, vendor shall follow nfpa 1901 standards on step locations and distance between them.
- 8.03 Steps can be either folding or non-folding.

Section 9: Electrical Equipment

- 9.00 Truck shall be equipped with a battery master switch. When in off position all electrical power to the apparatus shall be disconnected, as per NFPA.
- 9.01 Truck shall be equipped with an electrical load management system.
- 9.02 There shall be an electrical junction box for all apparatus connections, relays, circuit breakers, etc. All connections will be labeled or numbered and a dept will be provided with that documentation.
- 9.03 Clearance lights on body of truck will be LED.
- 9.04 Rear stop/tail/back up lights will be LED.

Section 10: Emergency Siren & Lighting Equipment

- 10.00 Siren shall be mounted in cab in reach of driver.
- 10.01 Siren shall be flush mounted into grill.
- 10.02 All emergency lighting will be NFPA Compliant.
- 10.03 All emergency lighting will be LED **with exception** of the Rear and Side Upper Level Rotators.
- 10.04 Lightbar shall be Red,CLR,CLR,Red.
- 10.05 Scene lights, There shall be a total of 6 scene lights (2) Passengers side, (2) Rear, (2) Drivers side.

- 10.06 Scene lights shall be halogen bulb, **Department wishes to have optional pricing for LED upgrade to scene lighting.**
- 10.07 Ground lighting to be nfpa compliant.
- 10.06 Arrow Stick, A LED arrow stick shall mounted on the rear of the apparatus; the control head shall be located on the center console of the truck cab.

Section 11: Painting, Lettering, Striping, and Signs

- 11.00 Striping and decals, gold leaf striping with black border and graphic corner decals shall be installed where applicable on the chassis and body. Clear protective vinyl shall be installed on all gold leaf striping, corner decals, and door lettering.
- 11.01 Gold Leaf door lettering with black border shall be as follows:
 - JAMESTOWN-4" Arched
 - RURAL – 3" Straight
 - FIRE DEPT. 3" Straight
- 11.02 Truck unit number decal, the truck unit number: **206** printed on 3" white reflective with black border in the same font as door lettering. A quantity of (2) is to be shipped loose to the department to install later.
- 11.03 All white reflective striping is to be NFPA compliant.
- 11.02 Rear Chevron is to be **Red and Fluorescent Yellow** and is to follow NFPA guidelines.
- 11.03 All fluid labeling, truck information, passenger information is to be NFPA or DOT compliant

Section 12: Mud Flaps

- 12.00 There shall be (2) mud flaps installed on the rear of the apparatus behind the rear wheels.

Section 13: Pump & Plumbing

- 13.00 Pump, pump is to be a pto driven at a minimum of 750 gpm.
- 13.01 Plumbing is to be all stainless steel.
- 13.02 Valves are to be all fire service quality, NO cheap valves!
- 13.03 Pump and components are to follow NFPA 1901 guidelines.
- 13.04 Pump is to be equipped with an auto governor.
- 13.05 Pump is to be equipped with an, electric oil-less primer.
- 13.06 Intakes, **The pump shall have the following as a Minimum:**
 - (1) 5" or greater pump intake.
 - (2) 2.5" gated intakes one on each side of pump panel.
 - (1) 2.5" gated tank to pump.
 - (1) 2" tank refill/recirculate line.
 - (1) pump cooler line.
 - (1) truck engine cooler line.
- 13.07 All intake lines shall be equipped with chrome caps, covers, or plugs.
- 13.08 **Discharges, The Pump shall have the following as a minimum:**
 - (2) 2.5" gated discharge lines with 30 degree elbow with 2.5"x1.5" reducer cap (chrome)
 - (1) 1.5" gated preconnect
 - (1) 1" gated discharge to hose reel.(Hose reel should be large enough to accommodate 150' of 1" booster line, to be located in body compartment or above pump panel, TBD by dept).
- 13.05 All discharge lines shall be equipped with chrome caps, covers, or plugs.

- 13.06 Gauges, all intakes and discharges shall have gauges indicating pressure in psi, all labeling of intakes and discharges will be color coded as per NFPA.
- 13.07 The pump compartment shall be winterized for extreme cold and include a 12 volt dc pump compartment heater. Switch to activate heater shall be located on pump panel and labeled.

Section 14: Hose Trays, Cross Lays, Booster Reel, & Pre-Connects

- 14.00 Any hose trays or cross lays shall have a minimum of two aluminum dividers. These can be located above pump compartment or above booster tank.
- 14.01 Preconnect, (1) 1.5" preconnect shall be located above pump compartment, above booster tank, or any other designed location specific to vendor chassis design.
- 14.02 Booster Reel, the booster reel can be located either in body compartment or on top of pump compartment to be determined by department after awarded bid.
- 14.03 hose bed cover, there will be a hose bed cover supplied as per NFPA.

Section 15: Hard Suction

- 15.00 Hard suction trays, there shall be two (2) 5" x 10' aluminum hard suction hose trays to be located on the driver's side above the cat walk, and on the tank.
- 15.01 There shall be two (2), 5"x10' pvc flexible hard suction hoses provided.
- 15.02 There shall be two (2), 2.5"x10' pvc flexible hard suction hoses provided.

Section 16: Chassis Accessories

- 16.00 Hub and lug nut covers, there shall be stainless steel hub and lug nut covers installed on front and rear wheels of tandem rear axle chassis.
- 16.01 Wheel chocks, there shall be two(2) wheel chocks with holders installed, under the body on the driver's side of the apparatus.
- 16.02 On-Board Battery Conditioner and Air Compressor, a Kussmaul Pump Plus 1200 (091-9-1200-s-kit) battery charger and air system shall be installed.
 - * The 120 volt compressor shall be designed to maintain the air pressure in the chassis brake system whenever the pressure drops below a predetermined level.
 - * The battery conditioner shall be supplied from the 120 volt shore power receptacle and be fully automatic high output charging system. The unit shall be mounted in a clean dry area and will be accessible for service and or maintenance.
- 16.03 Center Console, There shall be a poly or aluminum console located between the drivers and passengers seat in the truck cab. The console shall have space for: siren, switches, and other accessories. The console shall installed forward of the cab so bunker coats and helmets can be stowed behind it.
- 16.04 Heat exchanger, there shall be a heat exchanger installed that shall permit the use of the water from the pump to cool the engine. The cooling will be done without mixing the engine antifreeze and the pump water.

Section 17: Chassis

- 17.00 The truck chassis shall be equipped as to be NFPA 1901 compliant
- 17.01 The truck shall be of appropriate axle GVW for a 3000 gallon tanker.
- 17.02 The truck shall have a minimum of 350 HP
- 17.02 The truck shall be an automatic transmission
- 17.03 The truck shall be a model 2014 or newer.
- 17.04 Truck shall be Red in color.
- 17.05 Truck shall have the following features:
 - Cruise control
 - Engine brake
 - Air conditioning
 - Electric heated mirrors
 - Air ride drivers seat
 - Chassis to be up-fitted with emergency response package (larger alt etc.)
 - Air Horns mounted on front of cab fenders

The Jamestown Rural Fire District and Jamestown Rural Fire Department reserve the right to refuse any and all bids.

For any questions on bid specifications please contact:
Brian Paulson – Assistant Chief Jamestown Rural Fire Dept.
701-320-8963