



THE CORPORATION OF THE CITY OF NIAGARA FALLS

**REQUEST FOR TENDER - SUPPLY**

**RFT13 - 2020 - SUPPLY & DELIVERY OF  
FIRE TANKER TRUCK**

***SPECIFICATIONS***

**NAME OF COMPANY (DEALER):** \_\_\_\_\_

ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
<b>MAKE</b>	Kenworth	<b>Yes / Alternate ( with details)</b>
<b>YEAR</b>	Current model year	
<b>MODEL</b>	Kenworth T-880	
<b>MANDATORY REQUIREMENTS</b>	Vehicle shall be a new fire department tanker apparatus designed for emergency service use.	
	Actual overall height of the vehicle shall not exceed 138 inches (3.5 metres). This measurement shall be taken with the tires properly inflated and the apparatus unloaded. The door opening is 140" is the total height	
	Actual overall length of the finished vehicle shall not exceed 420 inches (10.7 metres).	
	Apparatus shall meet the requirements of NFPA 1901 <i>Standard for Automotive Fire Apparatus</i> , newest edition. Customer intends to equip the finished apparatus with such equipment required to meet same.	
	Complete vehicle to be ULC S515 tested and plated to be a "Mobile Water Supply Apparatus" (tanker), pump tested to 5,000LPM	
	Complete vehicle to meet ULC S515, all Canadian and Ontario vehicle safety standards	
	In the event of a conflict between the requirements of NFPA, CAN/ULC or the specifications contained herein, the more restrictive shall prevail.	
	Vehicle shall be equipped for registry and use in Canada. The vehicle shall be equipped with daytime running lights, metric speedometer, and	

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	other requirements of the Canadian Motor Vehicle Safety Standards (CMVSS).	
	FAMA safety guide to be supplied	
	National Safety Mark (or equal for import vehicles) supplied Yellow PMCVI sticker supplied for Ontario prior to delivery Yellow PMCVI inspection/sticker at end of first year and end of second year; warranty items to be automatically replaced, non-warranty chassis items to be quoted and replaced with written approval	
	Undercoating prior to delivery, with undercoating at the end of the first year warranty and end of the second year warranty	
	All 2-year warranty visits to be in Niagara Falls, or dealer to pick-up and drop-off truck (no additional charges)	
	Ontario license plates (permanent for fire trucks)	
	Delivery to fire department 4-hour operator session (per truck, during the evening or weekend)	
	All NFPA compliant options available for fire trucks (per Kenworth brochure)	
<b>2. CAB &amp; CHASIS</b>	New or demonstrator Kenworth T-880, 2-door day cab, tandem axle chassis intended for fire truck service, suitable to accommodate a 3,500 US gallon (13,250 litre) water tank and firefighting equipment. T880 with "MX Optimized Hood" option selected (NO EXCEPTIONS)	
	Front and rear axle rating provided to offer 8% weight reserve or better	
	Cab shall be equipped with an exterior aerodynamic sun visor.	
	Cab shall be equipped with standard instrument package, including cab heater with defroster, air conditioning, power door locks, power windows, electric horn, and electric windshield wipers with	

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	intermittent control.	
	The cab shall be equipped with a keyless ignition switch for fire truck service.	
	Cab shall having seats for 2 persons with a vinyl high-back driver side air suspension seat with dual arm rests, and a single vinyl high-back, non-air suspension passenger seat with dual arm rests and storage box under.	
	Cab shall be equipped with a metal console between the seats to locate the siren controller, emergency light controls, customer-supplied radio, and storage compartment.	
	Cab shall have NFPA compliant red seat belts, limited driver air seat height, and left-hand and right-hand NFPA compliant grab handles.	
	A Vehicle Data Recorder (VDR) system shall be provided in accordance with NFPA 1901.	
	A Rear-View Safety (or equivalent) model RVS-770615 camera system with one (1) wired, weatherproof, night-vision cameras and 7-inch LCD colour monitor shall be provided. The camera shall be located high on the tank above the rear water tank dump.	
	Heated mirrors shall be provided on each side of the vehicle with motorized adjustment.	
	Chassis frame rails shall be constructed of minimum 10-5/8 inch heat-treated steel, 120,000 PSI yield.	
	One-piece polished stainless steel front bumper extended to include: 100mm (2 1/2") discharge off passenger side.	
	Two (2) heavy duty open tow hooks/eyes shall be bolted to the chassis frame under the front bumper and to be attached to chassis frame and extend through the rear wall	
	Steel battery tray with aluminum cover shall be located on the driver's side of the chassis.	
	A red LED beacon light inside the cab and an audible alarm shall indicate a compartment door is open when the transmission is in drive.	

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ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
	Double frame - highest capacity and most suitable for tanker application	
	<i>Locally installed</i> chassis grease system by Flo Components - Contact Mark Nanni 416-571-9647 for details (must be locally installed for future service and warranty)	
	Aluminum painted cab console - maximum size available for Kenworth chassis; to include switches and other components, include space for FD radio; include storage area with lift-up/button latch	
	Cab door interior reflective - 96 sq in minimum	
	Complete vehicle information placard - best fit inside cab	
	Full stainless steel wheel trim including front hub with window, rear full hub and axle cover, and all nut covers	
	Install Shop air hose line within foot well driver side	
<b>3. VEHICLE WEIGHT &amp; DIMENSIONS</b>	Gross Vehicle Weight Rating (GVWR) and front to rear weight distribution of the vehicle shall be within the limits specified by the chassis manufacturer, NFPA standards, and Ontario Ministry of Transportation regulations.	
<b>4. ENGINE</b>	Cummins X15 450HP engine (or X12 450HP engine, if available)	
	Jacobs engine compression brake with high, medium, low, and off settings.	
	Dry type air intake filter and ember separator. Air intake filter restriction indicator light on the instrument panel to indicate that the air cleaner element requires replacement.	
	Heavy-duty cooling system shall be provided that meets NFPA standards, and engine and transmission manufacturers' specifications.	
<b>5. TRANSMISSION &amp; DRIVELINE</b>	Allison 4000EVS transmission, with push-button automatic selector panel	
	Driveline shall withstand the horsepower and torque of the engine and transmission.	
<b>6. EXHAUST</b>	Exhaust tubing shall be stainless steel.	

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	Exhaust system shall have a horizontal crossover diesel particulate filter (DPF) and selective catalyst reduction (SCR) with ground-dump tailpipe under the apparatus to the passenger side of truck.	
	Diesel exhaust fluid (DEF) tank shall have a minimum capacity of 11 US gallons (41 litres), shall be located on the driver's side of the chassis, and shall have a polished tank cover. DEF tank and all other items to be mounted under the cab - not behind the cab - to prevent being relocated into a body compartment	
	Exhaust to terminate on the right side ahead of the rear axles at body post or fender area (so FD installed Plymovent can be installed)	
	Final exhaust mounted between fenderette and compartment (for FD installed Nederman), NOT below door	
<b>7. FUEL TANK</b>	Polished aluminum fuel tank shall be located on the passenger side of the chassis, and shall have a 60 US gallon (227 litres) minimum capacity and polished straps.	
	Maximum size fuel tank available under cab - polished finish with polished straps	
<b>8. FRONT AXLE</b>	Front axle equipped with oil lubricated wheel bearing seals, and taper leaf springs with heavy duty shock absorbers.	
	Front axle and suspension - rated as need with reserve - state what is provided: (GAWR) minimum capacity of 21,000 pounds.	
<b>9. REAR AXLES</b>	Rear tandem axles with hub pilot hubs, oil seals, and Hendrickson self-leveling air ride suspension.	
	Rear axles and suspension - rated as need with reserve - state what is provided: (GAWR) minimum capacity of 46,000 pounds.	
<b>10. BRAKES</b>	Rapid build-up air brake system with anti-lock brake system (ABS) on the front and rear axles and shall meet FMVSS requirements.	
	Front disc brakes with automatic slack adjusters.	

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	Rear S-cam type drum brakes with automatic slack adjusters.	
	Emergency brake system shall automatically apply rear spring brakes if air pressure falls below 25 PSI. Audible alarm shall indicate when system air pressure is below 60 PSI.	
	Parking brake system shall engage the rear spring brakes by push-pull control valve on the dashboard of the cab.	
	Brake system shall include a heated air dryer.	
	Heated automatic moisture ejector with manual drain on the supply reservoir (wet tank). All other air reservoirs shall have manual drain valves with pull cords.	
<b>11. STEERING</b>	Vehicle shall be equipped with power steering.	
	Vehicle shall be equipped with a tilt and telescoping steering column.	
<b>12. WHEELS &amp; TIRES</b>	Vehicle shall be equipped with Alcoa. Polished aluminum front and rear (all wheels), with hub and lug nut trim; front trim top include cutout inspection window	
	Michelin/ Goodyear 385/65R22.5 XZY3 tubeless radial tires shall be on the steer axle.	
	Michelin / Goodyear XDS2 tubeless radial tires with mud and snow treads shall be on the drive axles.	
<b>13. VEHICLE ELECTRICAL SYSTEM</b>	Three (3) 12-volt batteries rated for a minimum of 950 Cold Cranking Amps (CCA) each shall be provided (2,850 CCA total).	
	Master battery switch shall be located between the seats on the metal console within easy reach of the driver.	
	Heavy-duty alternator intended for fire service applications that produces high output at low engine RPMs shall meet NFPA requirements.	
	An electronic load management system shall monitor the 12-volt electrical system and automatically reduce load during a low voltage condition and sequentially restore circuits as the system voltage recovers.	

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	13.6. 120-volt shoreline connection shall be provided with a 20-amp electrical inlet on the left side of cab with auto-eject feature.	
	Largest/best batteries available, mounted under cab or below passenger seat (AGM if possible)	
	Permanent ignition key; master battery switch on floor between drivers seat and cab door with "ON" light and label	
	12V Weldon multiplex electrical system and components - no exception (matches current fleet Spartan chassis electrical systems)	
	NFPA electrical testing - results to be provided with manual	
	If chassis batteries cannot be mounted under the cab or under the cab seat, state location where they will be located	
	Load manager, VDR/seatbelt monitor system all included and integral with Weldon multiplex system; seatbelt display located on cab dash and connected to door ajar alarm/light	
	1200 Pump plus super kit with battery charger, 12V air compressor, yellow 120V 20amp auto-eject with integral bar graph display; auto-eject/bar graph located on leftside cab steps in a best fit location (alum box integral with step construction)	
	LED amber and red DOT lighting to meet Ontario HTA requirements	
	Rubber arm marker lights on rear corners of body	
	Mid-body turn signal in rub rails	
	All stepping surfaces to be illuminated with integral lights (with steps) or Whelen OAC0EDCR lights	
	Step lights to turn on when truck parking brake is applied	
	Whelen M6BTT brake light, M6T turn light, M6BUW back-up lights in M6FCV4 bezels	
	FRC BCA221-A00 wireless InView TrueSight, rear and right side camera, single monitor mounted in the cab in a best-fit location	

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	6-fuse Blue Sea panel located in cab console, wired battery direct for FD installed future items	
	120V 15amp duplex outlet located in cab console, wired to shore power	
	120V 20amp duplex outlet located in (body compartment t.b.c.), wired to shore power	
	Body painted red to match chassis paint; to be equal to PPG FBCH 71663 red.	
	Body compartments to be unpainted/sanded aluminum; state cost to paint light/medium grey heavy-duty paint	
	Commercial vehicle amber/red reflectors	
	Red and fluorescent yellow-green chevrons on rear body - 100% coverage required	
	Vista display not required	
	Additional master battery switch located on metal console between seats, in addition to Kenworth switch if located at base of passenger seat	
	Amdor 12" LED ground lights; located under all cab doors, pump, all compartments, 2x under tailboard; lights to turn on in park and when truck is in reverse	
	Roll+B12:B18-up doors to be Amdor painted doors to match chasis, with magnetic switches and full height LED lights on both sides; with Amdor drip trays, drain tubes to below body	
	Roll-up doors to be Amdor painted doors to match chasis,, with magnetic switches and full height LED lights on both sides; with Amdor drip trays, drain tubes to below body	
	<i>Provide per item cost</i> - full-depth adjustable shelves, unpainted 0.188" aluminum with black Turtle-Tile, welded corners, drain holes, shelf mounts	
	<i>Provide per item cost</i> - half-depth adjustable shelves, unpainted 0.188" aluminum with black Turtle-Tile, welded corners, drain holes, shelf mounts	
	<i>Provide per item cost</i> - full-depth 500lb or better roll-out trays, unpainted 0.188" aluminum with	



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	black Turtle-Tile, welded corners, drain holes, red reflective on all edges	
	Amdor hosebed door lights, 1x 12" light per door (4x total)	
<b>14. LIGHTING</b>	Headlights shall have "Daytime Running" light feature.	
	All cab/chassis lights to be LED (including headlights, if possible, state if provided)	
	Rear Side Lower Zone C: Two (2) Whelen M6 series model M6FCV4 vertical tail light clusters with 4 light chrome flange shall be provided, each with one (1) C6LR red LED brake/tail light, one (1) C6LR red LED warning light passenger side, one (1) C6LB blue LED warning light driver side, one (1) C6T amber LED turn signal light, and one (1) C6LW white LED reverse light. All lenses to be clear/white.	
	Right Side Upper Zone B: Two (2) Whelen 900 series model C9SL Scene lights with chrome flange shall be located at the top front and rear of the tank. Scene lights shall be controlled by switches in the centre console in the cab. All lenses to be clear/white.	
	. Rear Side Upper Zone C: Two (2) Whelen 900 series model C9SL Scene lights with chrome flange shall be located at the top left and right rear side of the apparatus blow the warning lights. The rear scene lights shall activate when the transmission is placed in reverse, shall be controlled by switches in the centre console in the cab, and by a weatherproof switch at the rear of the apparatus. All lenses to be clear/white.	
	Left Side Upper Zone D: Two (2) Whelen 900 series model C9SL Scene lights with chrome flange shall be located at the top left and right rear side of the apparatus blow the warning lights. The rear scene lights shall activate when the transmission is placed in reverse, shall be controlled by switches in the centre console in the cab, and by a weatherproof switch at the rear of the apparatus. All lenses to be clear/white	

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	Clearance lights, tail lights, brake lights, and turn signals shall be LED. LED step lights shall illuminate the area around the cab doors when a door is opened. LED ground lights shall illuminate the ground area around the cab doors and the sides and rear of the apparatus.	
<b>15. EMERGENCY WARNING DEVICES</b>	All Emergency lights shall be Whelen LED lights and shall be controlled by switches located in the centre console in the cab.	
	Front Upper Zone A: One (1) 62 inch Whelen model JE0NFPA light bar on the cab roof. Driver side: 2x LED red corner w/ 3x forward facing red lights, Centre: 3x white, Passenger side: 2x LED blue corner w/ 3x forward facing blue lights.  Left side upper body - 2x M9J red/blue warning lights; 2x M9LZC scene lights	
	Rear upper body - 2x M9J red/blue warning lights; 2x M9LZC scene lights	
	Right side upper body - 2x M9J red/blue warning lights; 2x M9LZC scene lights	
	Front cab grill - 2x M6J red/blue warning lights	
	Left side of cab/body - 3x M6J red/blue warning lights <i>or equal to fit available space</i>	
	Right side of cab/body - 3x M6J red/blue warning lights <i>or equal to fit available space</i>	
	Rear/brake cluster - 2x M6J red/blue warning lights	
	Federal Signal e-Q2B electronic siren shall be provided with siren control head located in the centre console in the cab.	
	One (1) Federal Signal model BP200-Q chrome 200-watt siren speaker shall be recess mounted in the front bumper on each side	
	Two (2) Dual 21" or 24" air horns shall be recessed mounted in the front bumper.	

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	controlled with dual lanyards	
	A Voltex model Arrow 48 traffic board shall be located on the rear of the apparatus upper wall, with the control head located in the centre console within the cab.	
<b>16. Apparatus Body</b>	Five (5) enclosed compartments shall be provided on the driver's side, One for the pump panel, second in front of the rear wheels, third and forth above the rear wheels and five behind the rear wheels on each side.	
	All storage compartments shall be equipped with Dri-Dek tiles.	
	All compartments to include external vents All compartments to include drain holes for compartment wash-out	
	Weatherproof proximity switches in each storage compartment shall activate the compartment lights and shall provide a signal to the door open warning indicator in the cab.	
	All exterior stepping, standing, and walking surfaces shall have a slip resistant surface in compliance with NFPA 1901 requirements.	
	Rub rails shall be installed beneath the compartment doors to protect from damage.	
	Handrails shall be provided wherever required. All handrails shall be knurled aluminum of not less than 1-1/4" in diameter.	
	Fenders shall be integral with the side of the body. Fender wells shall be constructed with circular full inner liners.	
	Bright polished aluminum fenderettes shall be installed around the rear wheel wells.	
	A backup alarm shall be provided that activates when the transmission is in reverse.	
	Two (2) closed toe eyes shall be securely mounted at the rear of the apparatus.	
	Chrome front bumper contoured to match cab	
	Fire body layout must take into consideration to overall vehicle maximum length.	

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	Fire body to be made from 0.125 and 0.188 3003 H32 aluminum, no exception to grades of aluminum accepted	
	Fire body to be full welded - no bolted construction is acceptable	
	All horizontal surfaces to be designated as an NFPA/ULC stepping surface and covered with embossed diamond plate or equal; "NO STEP" signs are not acceptable	
	Fire body front wall to be covered with aluminum diamond plate	
	Body to be heavy-duty mounted to chassis frame, but allow for flex and twist of frame under normal and emergency driving conditions	
	Body - left side - full height compartment ahead of axles - width to be determined by manufacturer and sized as required (L1 compartment)	
	Body - left side - no compartments over rear axles	
	Body left side - low height compartment behind rear axles - width to be determined and sized as required (L2)	
	Body - right side - full height compartment ahead of axles - width to be determined by manufacturer and sized as required (R1 compartment)	
	Body - right side - 2x compartments over rear axles- width to be determined and sized as required (R2 and R3)	
	Body - right side - full height compartment behind rear axles - width to be determined by manufacturer and sized as required (R4 compartment)	
	All compartments to include unistrut for adjustable shelves	
	Single bottle SCBA tube storage between rear axles, 1x on each side	
	Zico PTS-HA portable tank lift to be provided, located over left side rear axles and rear compartment; to include painted tank cover;	

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	ability to store 3,500USG Husky tank to fit custom size porta tank	
	2x 5"x10' suction hose to be stored in separate aluminum box with end access and net or door mounted on the top of the portable tank storage cover (to access when the tank rack is down) to be approved by FD	
	Zico portable tank rack to include appropriate reflective tape, warning lights and alarm when used; to be connected to the door-ajar system in the cab	
	Hosebed to be above the water tank; hosebed to hold hose requested in loose equipment section	
	Divider provided to separate hosebed fill towers with main hosebed storage area	
	3x main hosebed dividers to be provided, with handhold cutouts on the end (and attached to track to allow them to be adjusted	
	NFPA/ULC stepping surface approved embossed diamond plate doors provided - 2x doors per side/4x total	
	Doors to include handrails on ends, and small handle on inside of front doors (to pull them close while they are open)	
	End doors to include black tarp secured to the body with bungee cords	
	Rear tailboard to extend same distance as dump-valve; middle section to be inset into body additional 8-12"	
	Rear tailboard to be NFPA/ULC stepping surface approved embossed diamond plate with gap to allow water drainage between tailboard and body	
	Rear tailboard to be attached to frame or reinforced to prevent flexing - no exception	
	Upper step below the hosebed to be provided, approx 8" deep and as wide as possible	
	Folding steps to be provided to access hosebed, also use top of full-depth rear compartments (bottom) section as solid stepping surface, inside where it becomes half-depth	

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	Maximum length grab handles to be provided at rear body in all locations on both sides - state quantity and lengths provided	
	Full width rubrails provided on the sides of the pump house, body and rear tailboard	
	Front and rear mud flaps required	
	Front and rear license plate brackets required	
<b>17. Water Tank</b>	Vehicle shall be equipped with a water tank with a capacity of 3,000 US (11,356 litres) that is designed to minimize the height of the centre of gravity while maximizing the maneuverability and stability of the vehicle.	
	Water tank shall be UPF (or equivalent) minimum ½-inch thick polypropylene and be baffled with transverse and longitudinal partitions. Partition vent and air holes shall permit movement of air and water and provide for maximum water flow.	
	The water tank shall have a lifetime warranty against defects in materials or workmanship.	
	Water tank to be built to all ULC/NFPA current standards	
	There shall be one (1) sump in the bottom of the water tank with an anti-swirl plate above the sump to prevent air from being entrained in the water while pumping.	
	Water tank fill couplings shall be backed with deflectors to break up the stream of water entering the tank, and be able to sustain fill rates up to 1,000 GPM at 100 PSI.	
	Water tank shall have a minimum 4-inch overflow/air vent pipe from the fill tower, through the tank, dumps behind the rear axle.	
	One (1) 38mm tank drain valve shall be provided under the water tank sump, with locking valve handle.	
	Manhole 20" in diameter with a 10" flip lid cover shall be located at the top of the tank. Lid shall be capable of being unlatched for additional overflow from the tank if the water flow would exceed the internal vent capacity.	

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	A minimum of two (2) 6" diameter internal vent/overflows shall be provided that shall be separate from the manhole and not obstruct the manhole opening. The vent/overflows shall be designed to prevent the creation of a vacuum within the tank while dumping water via the dump valves. The vent/overflows shall discharge excess spillage below the tank by use of internal piping within the tank, and shall dump any excess water behind the rear axles.	
	Newton valve assembly, including stainless steel manual dump valve with top control, stainless steel swivel, and stainless steel low profile (8x12) 36" telescopic extension chute; dump valve to extend to both sides of the truck unimpeded	
	There shall be three (3) Class1 electronic water tank level gauges to display the water level in increments of 1/8 of a tank on a multi-coloured, high-visibility LED display. One shall be located either side of the body and one shall be located at the rear of the truck.	
	5" stainless steel "Y" butterfly valve direct tank fill valve, terminate 4" stortz with 2.5" CSA adapter and cap; rear wall right side as low as possible; drain/bleeder valve included	
<b>18. PUMP</b>	One (1) Hale Q-Max 1050 USGPM pump engine-driven pump shall be permanently mounted inside the first compartment on the driver's & passenger side of the truck.	
	All gauges and controls shall be symmetrically and logically laid out. All names plates for discharges, suction and gauges shall be coloured . All labels shall be permanent type, securely attached to the panel resistant to all weather conditions.	
	Pump panel compartments shall be equipped w/ a Amdor roll-up doors assembled each with LED strip lighting.	
	A 6" pump inlet shall be provided on the left side of the pump. The inlet shall protrude from the side of the panel to allow for a 5" TFT external valve to be connected and not protrude past the	

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	apparatus body sides behind the roll up door.	
	Pumphouse shall be a separate component from the body, with roll-up doors over the left and right side, top of pumphouse painted to match body	
	14 gauge stainless steel left and right panels	
	Aluminum diamond plate floors	
	LED maximum width light along the top of the panels, with switch	
	Left side upper panel to be latched to allow service access	
	Right side upper panel to be large, and latched or removable for service access	
	Both sides lower panels to be removable if possible, or include bolted and removable panels if possible	
	4.5" master gauges with dual pressure kpa/psi, with blue backlights	
	2.5" discharge gauges with blue backlighting, red backlighting for foam capable gauges	
	Gauges to include colour trim rings to match handles - colours t.b.c.	
	Test ports	
	FRC InControl 400 pressure governor	
	ITL40M multi-colour water tank level gauge	
	Whelen PSTANK2 water tank level gauges, 1x left side high on body, 1x right side high on body, 1x rear high on body	
	36,000BTU heater inside pumphouse, aimed at rear of gauges; switch, light and label on panel	
	Hale ESP12 primer	
	Pump cooler and engine cooler controls	
	Master drain valve	
	Lift-up individual intake and discharge line drains	
	Compartment approx 1' wide, 2' tall, 1' deep (or larger if possible) with aluminum diamond plate door; located below speedlays; includes black Turtle-Tile floor	



**THE CORPORATION OF THE CITY OF NIAGARA FALLS  
REQUEST FOR TENDER – SUPPLY  
RFT13 – 2020 - SUPPLY & DELIVERY OF  
FIRE TANKER TRUCK**

**SPECIFICATIONS cont'd.**

**NAME OF COMPANY (DEALER):** \_\_\_\_\_

ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
	6" left side master Task Force Tips PN: AXD3SP-NX-T Description: Valve, Ball, Jumbo Low Profile Intake, 4" Storz x 6" F. NH Sw.hydrant valve reducing to 4" stortz	
	2.5" left side intake with CSA threads, swift handle control	
	2x 2.5" left side discharges with CSA threads, push-pull or rack and sector control	
	1x 2.5" right side discharge with CSA threads, push-pull control	
	1x 3" right side discharge with 4" pipe and 4" storz, push-pull control	
	1x 2.5" discharge with 4" storz connection routed straight through the front bumper on the right side, with cap; discharge will be used for tanker operation	
	1x 2.5" rear discharge with CSA threads, push-pull control	
	1x 3" deck gun, push-pull controls; capped for future use	
	1x 3" with 4" pipe, push-pull controls tank to pump line	
	1x 2.5", push-pull controls tank fill line	
	2x 1.5"/2" speedlay discharges, push-pull controls ( <i>foam capable</i> )	
	Speedlays located forward of the pump panel and enclosed behind the roll-up door; stacked one ontop of the other; include Slide-Master full extension roll-out trays (aluminum construction), IMS spring-locks, aluminum trays with handhold, full removable from slide to set on the ground to repack; both trays to slide out to drivers side. Each tray to accommodate 4 lengths of 45mm. hose	
	Mechanical pump seals	
	Victaulic relief valve	
	3x alloy anodes (1x suction, 2x discharge)	

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**SPECIFICATIONS cont'd.**

**NAME OF COMPANY (DEALER):** \_\_\_\_\_

ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
<b>19. STRIPING</b>	Scotch-lite striping NFPA compliant matching NF colours. A 6" high Scotch lite stripe shall be provided, stripe shall be applied on a minimum of 60% of each side of the unit, 40% on the front of the unit. The Scotch-lite stripe shall be determined by the Fire Department. Scotch-lite will be white in colour, rear chevron striping. The entire rear of the truck shall be covered with alternating strips of reflective striping which shall be 6" Scotch-lite and red and yellow in colour.	
<b>20. EQUIPMENT</b>		
	400' in 50' length 1.75" hose (NPSH) <i>colour t.b.c.</i>	
	800' in 50' length 2.5" hose (CSA) <i>colour t.b.c.</i>	
	800' in 50' length 4" hose (storz) <i>colour t.b.c.</i>	
	2x Akron 4714 1.5" nozzles	
	2x Akron 4826 2.5" nozzles	
	2x Streamlight Survivor LED yellow flashlights mounted in body <i>location t.b.c.</i> 12V wired battery direct	
	3x hydrant and spanner wrench sets, shipped loose	
	Husky ALF-3500 USG portable tank, yellow 22oz Exlon. Custom size TBD	
	2x SCBA brackets, shipped loose; include mounting hardware for PAC boards	
<b>BUILD INSPECTIONS</b>	Pre-construction meeting at manufacturer for three (3) FD reps Mid-build inspection for three (3) FD reps Final-inspection for three (3) FD reps Inspections include airfare, hotels, meals	

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**SPECIFICATIONS cont'd.**

**NAME OF COMPANY (DEALER):** \_\_\_\_\_

ITEM/CATEGORY	CITY REQUIREMENTS	BIDDER TO STATE SPECIFICATIONS
<b>WARRANTY</b>	Chassis warranty - per Kenworth Bumper to Bumper warranty - 3 years Body warranty - 10 year Paint warranty - 10 year pro-rated Hale pump warranty - standard 5 year parts and 2 year labour Piping warranty - 10 year stainless steel piping Water tank - lifetime warranty Other items - per manufacturer <i>no items under 1 year.</i>  <i>Copies of all warranties to be included.</i>	
<b>Service Diagnostics</b>	Supply Lap Top Diagnostic Software	
<b>Manuals</b>	Complete Parts Manuals	
<b>Manuals</b>	Complete Service Repair Manuals	
<b>Delivery</b>		
<b>License</b>	City will License	
<b>Filters</b>	Supply all Filters for First Service	