



Addendum Number 1

October 9, 2017

From: Procurement Department

Re: Invitation to Bid for Tandem Axle Dump Truck

Issue Date: 10/09/17

Due Date: 10/25/17

Please replace the specifications of the above referenced Invitation to Bid with the following pages.

End of Addendum Number 1



## Equipment Specifications

### DUMP TRUCK TANDEM AXLE DIESEL POWERED

The unit(s) to be furnished under this proposal shall be a tandem axle, diesel powered dump truck complete with dump body. This unit(s) is to be delivered complete and ready for use in municipal type water line maintenance and hauling operations.

*Compliance with the specifications shall be so noted in the yes or no columns designated. Any addition, deletion, or variation from the following specifications shall be so stated in the space provided. These specifications shall be construed as minimum; however, all exceptions will be weighed carefully against the needs, experiences, and resources of the City of Kingsport. These specifications also require the bidder furnish descriptive literature, complete specifications, and all other technical data on the equipment as proposed by the perspective bidder. Failure to comply with these conditions will deem the bidder as non-responsive.*

SPECIFICATIONS	Bidder Complies	YES	NO
<b>1.0 - GENERAL SPECIFICATIONS :</b> 1. Latest, current production model, diesel powered, tandem axle dump truck; new and unused with all standard equipment as offered by the manufacturer. 2. All parts, accessories, equipment, and safety features considered as standard by the equipment or vehicle manufacturer; whether herein specified or not, shall be considered as required. 3. This complete unit(s) shall be built and delivered complete and ready for use in full compliance with federal, state, and local requirements and regulations. 4. This unit and all other related equipment incorporated into this unit shall be designed, built, manufactured, and constructed in accordance with all applicable safety codes, design, and manufacturing standards as outlined by SAE, ANSI, AWSI, FMVSS and related organizations or standards agencies. 5. This unit(s) and attachments shall embody the highest quality materials and workmanship available.			
<b>EXCEPTIONS:</b>			
<b>2.0/ - G.V.W.R. :</b> 1. 56,000 Pounds or greater shall be provided.			
<b>EXCEPTIONS:</b>			
<b>3.0/ - AXLES :</b> 1. <b>Front:</b> 16,000# (minimum) pound rating or greater with a 16,000# suspension to include heavy duty shock absorbers and oil bath hubs. 2. <b>Rear Each:</b> 20,000# (minimum) pound rating or greater with a 22,000# rear spring or rubber block (Reyco Springs Not Acceptable) suspension. 3. A driver controlled differential lock shall be provided on forward rear and rear-rear axles and include power divider. 4. Synthetic differential fluids shall be provided. 5. Unit(s) shall be capable of having a minimum top highway speed of (60) MPH.			
<b>EXCEPTIONS:</b>			
<b>4.0/ - WHEELBASE :</b> 1. Shall be 201" inches (minimum) with an approximate C.T. of 135" inches (minimum).			
<b>EXCEPTIONS:</b>			

SPECIFICATIONS	Bidder Complies	YES	NO
<b>5.0/ - WHEELS AND TIRES :</b> 1. <b>Front:</b> Heavy duty, disc type wheels with 315/80 x 22.5 (18 ply rating) tubeless, nondirectional highway tread tires shall be provided. 2. <b>Rear:</b> Heavy duty, disc type wheels with 12R x 22.5 (16 ply rating) tubeless, highway type tread tires shall be provided. 3. Mounted on rim, full size spare, to match brand and size to steer axle tires, shall be provided loose on delivery.			
<b>EXCEPTIONS:</b>			
<b>6.0/ - STEERING :</b> 1. Full power assist steering, with tilt steering column, shall be provided.			
<b>EXCEPTIONS:</b>			
<b>7.0/ - ENGINE :</b> 1. Diesel Exhaust Fluid (DEF) equipped, wet sleeved electronic diesel similar in design to the Cummins L9 series, or greater, and developing a minimum rated output of 330 brake horsepower @ 2,000 RPM and 1,050 lbs/ft torque @ 1,400 RPM (or greater) with "Shift Energy Management" shall be provided. 2. A single stage, dry type, replaceable air filter element with restriction indicator shall be provided. 3. Engine hour meter and tachometer shall be provided.			
<b>EXCEPTIONS:</b>			
<b>8.0/ - COOLING SYSTEM :</b> 1. Heavy duty (1,100 sq/in minimum) cooling package with heavy duty fan clutch shall be provided. 2. Cooling system shall be protected to a minimum of -30° Fahrenheit with a lifetime type antifreeze. 3. All coolant hoses shall be Gates "Blue Stripe" or equivalent. 4. All cooling system hose clamps shall be of the stainless steel screw type, spring loaded, constant torque type regardless of hose , position, or manufacturer and shall be on all coolant containing hoses with an inside diameter of 3/8" or greater. 5. A thermostatically controlled engine heater (1,250 watt minimum) shall be provided. Press fitted type engine heaters not acceptable. 6. Engine heater shall be removable with common tools. 7. A die cast metal, weather proof heater receptacle connection for the engine heater shall be provided and located under the drivers door. 8. Manufacturer's standard fuel/water separator shall be provided.			
<b>EXCEPTIONS:</b>			
<b>9.0/ - EXHAUST :</b> 1. Manufacturers standard horizontal aluminized steel or stainless steel exhaust system shall be provided. 2. The exhaust system shall utilize Diesel Exhaust Fluid as part of the engine emission strategy. 3. A 45° degree turndown shall be supplied at the end of the exhaust system.			
<b>EXCEPTIONS:</b>			
<b>10.0/ - TRANSMISSION :</b> 1. Manufacturer's heavy duty 6 speed automatic transmission, equivalent to the Allison RDS 3500, with PTO option, shall be provided. 2. Synthetic transmission fluid shall be provided. 3. A solid state reverse activated back-up alarm shall be provided.			
<b>EXCEPTIONS:</b>			

SPECIFICATIONS	Bidder Complies	YES	NO
<b>11.0/- BRAKES :</b> 1. Full air, ABS (four sensor) disc type front and rear with automatic slack adjusters and dust shields. 2. A heavy duty, heated, desiccant serviceable, automatic purge type air dryer (similar in design to the Bendix AD-9) shall be incorporated into the air brake system. 3. Discharge valve and purge valve shall be readily replaceable from the exterior of the unit. 4. All air reservoir tanks shall have cable type tank drain valves easily accessible from the outside of the frame rails by the operator for daily draining. <b>NO EXCEPTIONS!</b> 5. Rear brake chambers shall be mounted forward of rear axle to prevent street paving equipment loading issues. 6. Air compressor shall have a minimum rating of 18.7 CFM.			
<b>EXCEPTIONS:</b>			
<b>12.0/ - ELECTRICAL :</b> 1. Alternator shall be rated at (160 ) AMPS, minimum. 2. A 12 volt dual battery system shall be provided with OEM standard battery jumper studs and battery box cover. 3. Batteries shall be rated at 1,150 CCA minimum each (2,250 minimum total) and will be group (31) or better. 4. Battery terminals shall be protected with a corrosion resistant coating. 5. All wiring shall be color coded and numbered for ease of maintenance. 6. All circuits shall be circuit breaker or fuse protected. 7. Convenient access shall be provided for all electrical circuits, controls, and wiring. 8. All wiring shall conform to Society of Automotive Engineers (SAE) requirements and installation procedures. 9. <i>NOTE:</i> "Scotchlocks" or other piercing type wire connectors on any connection (cab/chassis, body, or attachments) shall not be accepted. 10. Twist lock and/ or twist wire nut type connectors on any connection (cab/chassis, body, or attachments) shall not be accepted. 11. All external connectors shall be weather proof and corrosion resistant in design, manufacture and use. 12. All wiring shall be enclosed in a non-metallic loom from connector to connector and secured in place utilizing vinyl coated metal clamps. 13. Any penetration of wiring through metal points or other materials shall have protective rubber grommets installed in such opening on body, chassis, or any attached component.			
<b>EXCEPTIONS:</b>			
<b>13.0/ - FRAME :</b> 1. Manufacturer's heavy duty (3.2 million RBM minimum), with full inner liner, reinforced frame shall be provided.			
<b>13.1/ - TOW HOOKS :</b> 1. Front frame mounted, painted, tow hooks shall be provided.			
<b>13.2/ - FRONT BUMPER :</b> 1. Painted front bumper shall be provided.			
<b>EXCEPTIONS:</b>			

SPECIFICATIONS	Bidder Complies	YES	NO
<b>14.0/ - INTERIOR :</b> 1. Heavy duty, vinyl covered, high back air suspension drivers seat, full foamed shall be provided. 2. Heavy duty, vinyl covered, standard suspension mid high back passenger seat, full foamed shall be provided. 3. Retractable, three (3) point seat belt systems shall be provided for the driver and passenger. 4. Interior components shall be color keyed to dark blue, red, brown, or gray. 5. Heavy duty rubber or vinyl full floor covering shall be provided. 6. Standard left and right door mounted arm rests and left and right sun visors shall be provided. 7. Standard door latches and manual door locks shall be provided. 8. Full instrumentation package ( i.e. fuel, AMP, water temperature, oil pressure, etc.) including engine hour meter and tachometer shall be provided. 9. Manufacturers standard AM/FM radio shall be provided. 10. Door and ignition keys shall be keyed alike with four (4) sets of keys to be provided per unit. 11. Dual speed windshield wipers and washers shall be provided. 12. Electronic cruise control shall be provided. 13. FMVSS, DOT approved retractable restraint belts for operator and two (2) passengers shall be provided. 14. Heavy duty factory style floor mats to overlay floor covering shall be provided. 15. Manufacturer's standard heating and air conditioning package, with heavy duty compressor, shall be provided.			
<b>EXCEPTIONS:</b>			
<b>15.0/ - EXTERIOR :</b> 1. Cab color shall be manufacturers standard white. 2. Body and chassis frame shall be manufacturer's standard black. 3. Air cab mounts shall be provided. 4. Dual level, cab entry steps with rear of door, exterior cab entry grab handles shall be provided on left and right sides. 5. Left and right full (16" x 7" minimum) "West Coast" style, with remote controlled option, rearview mirrors shall be provided. 6. Eight (8") inch, minimum, convex mirrors shall be mirror frame mounted below the primary mirrors. 7. Mud flaps shall be provided front, rear, and bed mounted front of rear wheels and include supports to keep flaps from contacting tires. 8. Manufacturers standard tinted widows, with manual door widow opening feature, shall be provided.			
<b>EXCEPTIONS:</b>			
<b>16.0/ - FUEL SYSTEM :</b> 1. A eighty ( 80 ) gallon minimum steel fuel tank shall be provided. 2. A fuel water separator with serviceable, replaceable type filter shall be provided.			
<b>EXCEPTIONS:</b>			
<b>17.0/ - LIGHTS :</b> 1. Light and reflector configuration for this unit(s) shall be in full compliance with Federal Motor Vehicle Safety Standards. 2. All lamps and lenses shall be LED style where available and shall be of a make and model for which parts are readily available. 3. Tail lights shall be sealed type and shock mounted.			
<b>EXCEPTIONS:</b>			

SPECIFICATIONS	Bidder Complies	YES	NO
<p><b>18.0/ - PINTLE HOOK &amp; TRAILER CONNECTION :</b></p> <ol style="list-style-type: none"> <li>Heavy duty, rear frame mounted pintle hook hitch with safety chain eyelets shall be provided.</li> <li>The pintle hitch rating shall be a minimum of 40,000 lbs. gross trailer weight with a 6,000 lbs. min. vertical load rating.</li> <li>Trailer hitch shall measure no less than 27" but not greater than 30" from the most lower point of the pintle hook to the ground.</li> <li>Chassis shall be pre-wired and include a standard, 2 hole mount, heavy duty, round split pin type, seven pole tractor/trailer electrical connector, similar in design and performance characteristics to the Standard Ignition Products Model "TCP77F", for trailer towing. The connector shall be mounted above the pintle hook and wired to the chassis according to the following description : <ul style="list-style-type: none"> <li>Pin 1 / White - Ground</li> <li>Pin 2 / Black - Right Turn Indicator</li> <li>Pin 3 / Yellow - 30 amp fused power auxiliary</li> <li>Pin 4 / Red - Tail lights</li> <li>Pin 5 / Green - Trailer Brakes</li> <li>Pin 6 / Brown - Left Turn Indicator</li> <li>Pin 7 / Blue - Backup Lights</li> </ul> </li> <li>The connector shall be provided with an installed corrosion resistant, weather proof, rubber boot. This boot shall be similar in design and performance characteristics to the Standard Ignition Products Model "TCP77B".</li> <li>An electronic, dash mounted, trailer brake controller shall be provided</li> <li>All electrical connections to include the internal trailer connector socket connection shall be protected with a corrosion resistant coating.</li> <li>Lower edge portion of hitch mounting plate shall not interfere with paver operation.</li> <li>All body or other attached components electrical installations shall adhere to Specification Section 12.0 Electrical.</li> </ol>			
<p><b>EXCEPTIONS:</b></p>			

SPECIFICATIONS	Bidder Complies	YES	NO
<p><b>19.0/ - DUMP BODY :</b></p> <ol style="list-style-type: none"> <li>Heavy duty, "rock-type" dump body shall be supplied with a centralized hydraulic system incorporated to operate a V-Box Salt Spreader.</li> <li>Length, (192") minimum; height (36") minimum; width (93") minimum; (outside); tailgate height (42") minimum.</li> <li>Front mount single post telescopic type hoist (hoist cylinder shall have a manual bleed valve) with all necessary hydraulic reservoirs, pumps, and P.T.O. controls.</li> <li>The hydraulic pump and tank shall have the capacity and capability of supporting the continual use of a V-Box type material spreader without overheating the hydraulic system.</li> <li>Cab to body clearance shall be no greater than four (4") inches.</li> <li>Flooring shall be a minimum of (7) gauge high tensile steel.</li> <li>The body sides and front shall be a minimum of (10) gauge high tensile steel.</li> <li>Cross sills shall be no greater than fifteen (15") inch centers.</li> <li>Steel body uprights shall be provided with drain holes to allow moisture to drain from body standards.</li> <li>Body side access steps shall be provided on both body sides to include a low access step to reach body access steps.</li> <li>Air operated controls shall be provided and shall be in the cab, between the seats and mounted within easy reach of the driver/operator.</li> <li>Controls shall be for P.T.O. activation, up and down control of bed, and air operated tailgate latch.</li> <li>Lever control nomenclature shall be mounted as to be read in the proper position. <b>NOTE:</b> Lever control nomenclature mounted "upside down" or "180° out" from vehicle operators seated viewing location will not be accepted.</li> <li>Tailgate latch lever shall be of the air operated, positive locking type.</li> <li>Dump body shall include a 30" minimum "half cab" shield and inner and outer bed board brackets.</li> <li>White oak bed boards shall be installed in the bed board brackets and a be a minimum of eight (8") inches in height and be the full width of the top sill.</li> <li>A downward angled asphalt lip extending a minimum of twelve (12") inches from the outer rear of the bed surface shall be provided.</li> <li>Electronic type asphalt tarp system shall be provided.</li> <li>Bed dump shall have a one man operated safety prop rod so that underbody maintenance can be performed with the bed in the "locked" raised position.</li> <li>Pin type safety locking systems are not acceptable.</li> <li>All body or other attached components electrical installations shall adhere to Specification Section 12.0 Electrical.</li> </ol>			
<p><b>EXCEPTIONS:</b></p>			
<p><b>20.0/ - DUMP BODY TARP SYSTEM:</b></p> <ol style="list-style-type: none"> <li>An electronically operable tarp control shall be provided and have the following features at a minimum: <ol style="list-style-type: none"> <li>Dash or Tower Mounted Controls</li> <li>Aluminum Arms</li> <li>Rub Rail Springs</li> <li>Heavy Duty Vinyl Asphalt Cover</li> </ol> </li> </ol>			
<p><b>EXCEPTIONS:</b></p>			

SPECIFICATIONS	Bidder Complies	YES	NO
<p><b>21.0/ - DUMP BODY HYDRAULICS:</b></p> <ol style="list-style-type: none"> <li>1. The minimum hydraulic components to be included for the body and the V-Box spreader shall be the following:               <ul style="list-style-type: none"> <li>A: Dual Valve Handle</li> <li>B: Stack Valve with Power Beyond</li> <li>C: Speed Control Valve</li> <li>D: Hot shift PTO</li> </ul> </li> <li>2. A 2" inch N.P.T. suction port, if required for V-Box material spreader operation, to include in-tank suction screen and shutoff valve, shall be provided on the hydraulic tank.</li> <li>3. A 30 gallon, minimum, tank with mounted sight glass and temperature gauge shall be provided to insure proper system fluid level and operation.</li> <li>4. A 2" inch N.P.T. return port, if required for V-Box material spreader operation (to include an inline filter with screw on 10 micron filter element and shut off valve) shall be provided on the hydraulic tank.</li> <li>5. All inlet and outlet ports of the hydraulic tank require quarter turn stainless ball valves to be installed so hydraulic system maintenance can be performed without the loss of fluid.</li> <li>6. All hydraulic fluid returns shall be through the tank return port and shall include an in-tank de-fuser which shall be lower than the running level of the fluid.</li> <li>7. Hydraulic lines used for the V-Box spreader shall be of the 2 wire hydraulic line, minimum.</li> <li>8. Hydraulic tubing/lines shall terminate to the center rear of the truck through a bulkhead connection.</li> <li>9. These lines shall be Pioneer brand 4000S stainless series, or equivalent, quick connectors hitch plate mounted and centered above the trailer hitch with no closer than three (3") centers between connectors.</li> <li>10. Right connection shall be a return line and be a 3/4" male connector.</li> <li>11. Center connection shall be for the spinner and shall be a 1/2" male connector.</li> <li>12. Left side connection shall be for the auger and shall be a 1/2" female connector.</li> <li>13. All hydraulic lines shall be permanently (bolted) clamped to prevent chaffing.</li> <li>14. Excessive use of cable/zip ties will not be acceptable.</li> <li>15. Lines extending from the front and going to the rear ports shall be of high pressure hydraulic steel tubing.</li> <li>16. Extended runs of rubber hydraulic hoses longer than 24" will not be acceptable.</li> </ol>			
<p><b>EXCEPTIONS:</b></p>			





SPECIFICATIONS	Bidder Complies	YES	NO
<p><b>24.0/ - DELIVERY :</b></p> <ol style="list-style-type: none"> <li>1. Unit(s) shall be delivered complete with all provided options installed and a full tank of fuel.</li> <li>2. The Diesel Exhaust Fluid tank shall be full if applicable to the unit(s).</li> <li>3. Unit(s) shall be delivered complete with NO dealer advertising logos affixed to the interior or exterior of the unit(s) prior to delivery.</li> <li>4. Delivered unit(s) shall come with all required paperwork to complete the purchase and registration process and shall include at a minimum:               <ol style="list-style-type: none"> <li>a. Invoice</li> <li>b. Mileage Statement (if applicable)</li> <li>c. Manufacturer's Statement of Origin (MSO)(if applicable).</li> </ol> </li> <li>5. Delivery acceptance of unit(s) may be refused if any part of the awarded specifications are not maintained.</li> <li>6. Delivery acceptance of unit(s) may be refused if any device, feature or system is deemed as unsafe to the operator and/or the general public as determined by the City of Kingsport's knowledge or experience.</li> <li>7. Delivered unit(s) are required to complete an acceptance inspection (school buses will require the additional State of Tennessee inspection) and shall be inspected against awarded specifications as a total unit, irregardless of multiple manufacturer contributions to the completed elements of the unit(s), before acceptance is granted.</li> <li>8. Bidder misunderstanding and/or misinterpretation which results in an unsatisfactory bid or final delivered product is not the responsibility of the City of Kingsport.</li> <li>9. The City of Kingsport shall have the sole interpretation of the bid requirements and shall have final determination whether submitted bids and/or the final product delivered satisfy the requirements of the bid.</li> <li>10. All awarded bids shall be subject to final inspection of the unit(s) ordered by the Fleet Manager, or designee, and must be compliant with all bid requirements prior to acceptance of the unit(s) and final payment.</li> <li>11. Any non-compliant unit(s) must be made compliant at the expense of the awarded bidder and within a reasonable time frame, as determined by the City of Kingsport.</li> <li>12. Misinterpretation of the specifications by the vendor or failure to supply the appropriately equipped unit(s) specified or intended, based on the City of Kingsport's interpretation, shall be corrected to the benefit of the City of Kingsport by the awarded bidder at the bidders expense.</li> <li>13. In all cases the City of Kingsport's interpretation and definition of unit(s) specifications and requirements shall be the final determination of a successful final inspection and compliance with awarded specifications before unit acceptance will be granted.</li> <li>14. Failure to provide the requested documentation upon delivery shall be considered as non-compliance to awarded specifications and allows the City of Kingsport the right to refuse acceptance.</li> </ol>			
<b>THERE ARE NO EXCEPTIONS ALLOWED TO THIS SPECIFICATION</b>			

SPECIFICATIONS	Bidder Complies	YES	NO
<p><b>25.0/ - OPTION A: SNOW PLOW :</b></p> <ol style="list-style-type: none"> <li>1. Vendor shall quote an add on price for a ten foot (10' minimum), detachable, reversible snow plow similar in design to the Meyers Model HM-10 Bumper to Axle Mount® or the Western Heavyweight to be used in street plowing operations and appropriate to the GVWR of this vehicle.</li> <li>2. Unit shall be modular in design incorporating plow, control components, hydraulic cylinders, and lights and shall be detachable from the vehicle when not in use.</li> <li>3. Plow blade width shall be a minimum of ten (10') feet.</li> <li>4. Plow blade shall be electronically controlled, hydraulic operated and capable of being positioned by the operator from a seated position in the cab using dash mounted electronic controls.</li> <li>5. Blade controls shall be: left, right, up, down, and float.</li> <li>6. Blade height shall be a minimum of thirty two (32") inches and shall include manufacturer's optional snow deflector.</li> <li>7. Blade thickness shall be of a minimum of 7 gauge high tensile steel.</li> <li>8. Blade shall be able to obtain a minimum of a 30° degree left or right angle when plowing.</li> <li>9. The plow blade shall be provided with a minimum of six trip springs to soften trip action.</li> <li>10. A minimum of seven (7) support ribs shall be incorporated into the blade.</li> <li>11. Blade guides shall be provided on blade ends to allow for operator positioning and visibility.</li> <li>12. Blade snow deflector shall be provided.</li> <li>13. Heavy duty steer blade end curb guards shall be provided.</li> <li>14. Bolt on plow blade cutting edge shall be of a high carbon steel.</li> <li>15. Adjustable cast iron runner shoes shall be provided.</li> <li>16. Plow shall be powder coated with the manufacturers standard product color.</li> <li>17. Auxiliary lighting package shall be provided with the appropriate mounts, wiring, etc.</li> <li>18. Lights shall be of the low profile type and shall have: dual beam halogen headlights, combination park and turn signals and shall conform to federal safety standards.</li> <li>19. Lights shall be wired into the chassis lighting system using accepted SAE wiring standards.</li> <li>20. NOTE: "Scotchlocks" or other piercing type wire connectors shall not be accepted.</li> <li>21. All terminal connections shall be stake on type, soldered, or equal with heat shrink tubing insulating the wiring and terminal.</li> <li>22. Twist lock and/ or twist wire nut type connectors shall not be acceptable.</li> <li>23. All external connectors shall be weather proof, corrosion resistant in design, manufacture, and use.</li> <li>24. Wiring shall be encased in a protective loom and fastened with appropriate fasteners or cable ties.</li> <li>25. Any penetration of wiring through metal points or other materials shall have protective rubber grommets installed in such opening.</li> <li>26. All electrical connections for plow to truck shall secured in the front bumper area within easy reach and of weatherproof design.</li> </ol>			
<b>THERE ARE NO EXCEPTIONS NEEDED TO THIS SPECIFICATION</b>			
<p><b>26.0/ - MISCELLANEOUS INFORMATION REQUIRED:</b></p> <p>Vendor shall supply the following information in the space provided on the unit (cab/chassis/body) proposed:</p> <ol style="list-style-type: none"> <li>1. Location (City, State) of Cab/ Chassis Manufacturer.</li> <li>2. Location (City, State) of Cab/Chassis Dealership.</li> <li>3. Percentage of Import/ Domestic Content of Cab/ Chassis.</li> <li>4. Location (City, State) of Body Manufacturer.</li> <li>5. Location (City, State) of Body Dealership.</li> <li>6. Percentage Import/ Domestic Content of Body.</li> <li>7. Anticipated Fuel Economy (MPG) of Unit when utilized during transport/ work environment.</li> </ol>			
<b>THERE ARE NO EXCEPTIONS NEEDED TO THIS SPECIFICATION</b>			