

***Request for Proposal
for
Medium Duty Hook Lift Truck***



***City of Sevierville
Public Works Department
310 Robert Henderson Road
P. O. Box 5500
Sevierville, TN 37864-5500
Phone: (865) 429-4567
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September 2017

INFORMATION FOR PROPOSAL

RECEIPT AND OPENING OF PROPOSALS

The City of Sevierville, Tennessee (herein called the "Owner") invites responses on the form(s) attached hereto for a Request for Proposal for **MEDIUM DUTY HOOK LIFT TRUCK**. The Owner will **RECEIVE PROPOSALS UNTIL OCTOBER 18th, 2017 at 3:00 PM**, at Sevierville City Hall, 120 Gary Wade Boulevard, Sevierville, Tennessee, 37862 (Mailing address: P. O. Box 5500, Sevierville, Tennessee, 37864-5500). The envelope containing the proposal must be sealed, addressed to Tracy Baker, Assistant City Administrator, and must bear the following information:

Name of Proposing Firm
Proposer's Address
Date and Time of Proposal Opening
Proposal Enclosed: **Medium Duty Hook Lift Truck**

NOTE: Each proposer shall submit **three (3) copies** of the completed proposal or the proposal may be rejected.

The Owner may consider informal any proposal not prepared and submitted in accordance with the provisions hereof, and may waive any informality or reject any and all proposals. Any proposal received after the time and date specified shall not be considered.

QUALIFICATIONS OF PROPOSALS

The Owner may make such investigations as Owner deems necessary to determine the ability of the Proposer to supply the required vehicle, and the Proposer shall furnish to the Owner all such information and data for the purpose as the Owner may request. The Owner reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Proposer fails to satisfy the Owner that such Proposer is properly qualified to supply the required vehicle within the required time. Conditional proposals will not be accepted.

OBLIGATION OF PROPOSER

At the time of the opening of proposals, each Proposer will be presumed to have read and to be thoroughly familiar with the specifications. The failure or omission of any Proposer to examine all the forms, instruments, and documents shall in no way relieve the Proposer from any obligation in respect to his/her proposal.

Each Proposer is requested to fill out and return the attached Title VI Information sheet, vendor information sheet, and W-9 form as a part of the proposal package.

REFERENCES

The model of vehicle proposed shall already have been delivered and in operation. A list of customers who have purchased and currently using the proposed model **MUST** be submitted with the proposal. Please include the model of vehicle, number of vehicles purchased, and purchaser name, address, contact person, telephone and e-mail information.

QUANTITIES AND LENGTH OF CONTRACT

It is the Owner's intent to purchase one (1) truck from this proposal. Proposed prices will be applicable for at least one hundred twenty (120) days after the bid opening. Additional vehicles may be purchased on this bid during that time if available from the vendor. This same truck shall be made available to any other transit agency or municipality in the State of Tennessee upon approval by the City of Sevierville with applicable shipping costs added to the base price.

VENDOR INFORMATION AND MANUALS

All equipment offered under this proposal shall be new and unused, **however** the vehicle may be of the latest model year **or** the previous year available from the manufacturer. The unit offered for bid shall meet or exceed the specifications attached to this proposal package. The proposal package (specs) shall be considered as minimums unless otherwise indicated. Adequate vendor information shall be included with the proposal for determination of meeting the specifications. Any exceptions shall be explained in writing and submitted as a part of the proposal package. Vendors may submit multiple proposals.

The successful Proposer will be required to include in the price and ship with the vehicle, one (1) complete sets of manuals for each vehicle(s) purchased. Each set shall include (as a minimum) an operator's manual, a service manual, and a parts manual. One (1) copy of the service and parts manuals shall be in digital (CD) form if available; the other set may be bound. Otherwise, one (1) bound copies of each listed will be required.

The successful Proposer will be required to include in the price and ship with the equipment, four (4) sets of key(s) and two (2) key fobs for each vehicle as applicable.

WARRANTY

Warranty information is included in the proposal specifications. Warranty must coincide with in-service date, not delivery date. In service date will not to exceed 60 (sixty) days from delivery date.

SHIPPING/DELIVERY

The vehicles shall be delivered to Sevierville Public Works Facility, 310 Robert Henderson Road, Sevierville, Tennessee, 37862, within 120 days after award of contract. Vehicle(s) shall be delivered with at least ten (10) gallons of fuel. Delivery shall be FOB Sevierville, Tennessee. Any and all shipping and/or handling charges to be included in the bid price.

DEALER Pre-delivery Inspection

Vehicles to undergo pre-delivery inspection by the dealer. Inspection to consist of vehicle function checks, accessories check and appearance check. Vehicle to be ready to put into related service needs upon delivery.

IRAN DIVESTMENT ACT

By submission of this proposal, each bidder 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 § 12-15-106.

GENERAL SPECIFICATION GUIDELINES

Proposals for new model years of 2017 and 2018 will be accepted. Models used for demonstration purposes will be considered. However, if a demonstrator model is quoted, a new model MUST also be quoted for comparison. Trucks that are in stock (on the lot), that are comparable will be considered.

The proposed vehicle must be a 550/5500 series truck, 4 wheel drive, dual rear wheels, regular cab, diesel engine capability of B20 fuel use, automatic transmission and a GVWR of approximately 19,500 pounds. The vehicle will be used for multiple task in the Public Works Department on a daily basis. The vehicle's Hook Lift system loading and unloading, will be required to operate in one lane of traffic. The Hook Lift system shall accommodate frames in the length of 12 feet to 16 feet. The vehicle will be utilized in multiple subdivisions, streets and highway, so the turning radius (at full left or right) should be notated for reference. The vehicle must be delivered fully operational and "ready-to-work". The Hook Lift system must be fully functional from the inside of the cab. When bidding the optional Hook Lift mounted body, all hydraulic and electrical shall be complete with "quick connect" fittings. The optional body, any one that is Bid, shall be Hook Lift Frame mounted. No damage shall be incurred when unloading or loading the optional body. Unloading the optional body, as specified in this package, shall be a one person operation. Owner will test the vehicle under actual operating conditions and will not finally accept the vehicle and release payment unless and until the test is completed to Owner's satisfaction, in Owner's sole discretion. Testing the operation will be completed within 5 Business days. Delivery of the vehicle shall be within 120 days after acceptance of the proposal.

The following non-exclusive list of requirements for the vehicle are for reference and not intended to define maximum performance limits. Demonstration model(s) should be available if requested at the time of proposal.

Medium Duty, 4x4, Dual rear wheel, W/ Hook Lift Assembly

Acceptable Models: Ford F550, GMC 5500, Dodge 5500 or comparable chassis
No Fleet delete models

Minimums

Yes No

- _____ GVWR: 19,500, payload upgrade required-rear spring rating 15,000 lbs.
 - _____ ENGINE: diesel (B20 compatible) or gasoline
 - _____ ENGINE: 6.7 liters
 - _____ CAB TO AXLE 120 inches
 - _____ WHEELBASE 205 inches
 - _____ COOLING SYSTEM: Heavy-duty for towing
 - _____ TRANSMISSION: Electronic FIVE (5)-speed Automatic with Overdrive Transfer case (4-wheel drive) shall be floor mounted manual shift.
 - _____ PTO (power take off) to be OEM equipped on transmission
 - _____ FRONT AXLE hubs shall be manual engagement
 - _____ STEERING: Power, tilt steering wheel
 - _____ BRAKES: Hydro boost, 4-wheel Anti-lock, parking brake driveline engaging
 - _____ AXLE RATIO: 4.88, Limited slip, or to match OEM engine specs
 - _____ SUSPENSION: As required per GVWR with heavy-duty shocks and sway bars, front and rear
 - _____ TIRES 245/70R-19.5 REAR tires-grip traction, FRONT tires All Position tread
 - _____ WHEELS: 19.5" Painted steel, spare wheel to be included
 - _____ BATTERY(s): Quantity of 2, 12-Volt, maintenance free w/880 CCA
 - _____ ALTERNATOR: 200 amp output
 - _____ WINDOWS: Power, Solar tint, all windows, rear window privacy tinted
 - _____ DOORS: TWO full-size doors only, power door locks
 - _____ FUEL CAPACITY: FORTY (40 gallons). Shall be delivered with at least ten (10) gallons
 - _____ AIR CONDITIONING: Standard w/heater-defroster unit, OEM installed only
 - _____ WIPERS: Variable control system
 - _____ ACCESSORIES: AM/FM Stereo
 - _____ ACCESSORIES: 12 volt power: located dash area: 2 switched by ignition and one un-switched (20 amp)
 - _____ INSTRUMENT PANEL: Speedometer, trip odometer, fuel gauge, voltage gauge, oil pressure gauge, and tachometer (gauge package)
 - _____ SEATING: Premium heavy duty vinyl, 40/20/40 bench
 - _____ COLOR: Cab- Exterior, gloss white, Interior, gray: Chassis to be BLACK- OEM type paint
 - _____ MIRRORS: swing-away type, with integral convex mirror
 - _____ LIGHTS: Interior cab and exterior-per DOT requirements
 - _____ TRAILER TOW PACKAGE: Factory installed electronic brake, Class IV receiver hitch for a two inch (2") ,flush mounted ,10,000 lb. capacity , standard seven-pin and 4 pin wiring harness
 - _____ TOW HOOKS: OEM only, two (2) front tow hooks front and rear
 - _____ FLOORING: heavy duty vinyl with heavy duty rubber floor mats
 - _____ BUMPERS: Standard OEM type, chrome front, rear painted
 - _____ WARRANTY: Manufacturer's standard "Bumper to Bumper" warranty for thirty-six (36) months or thirty-six thousand (36,000) miles, whichever comes first. Diesel engine and transmission (drive train) shall be warranted for an extended period of not shorter than 5 years or 100,000 miles. Warranty must coincide with in-service date, not delivery date. In service date will not to exceed 60 (sixty) days from delivery date.
 - _____ HYDRAULIC SYSTEM: installed lines to be quick disconnect to match optional refuse bed
 - _____ ELECTRICAL: additional wiring to be quick disconnect type to match optional refuse bed
 - _____ Inclusive Discount Package with added options acceptable
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WARRANTY

- _____ Total chassis coverage shall be 24 months/unlimited mileage
- _____ Engine coverage shall be 36 months/150,000 miles.
- _____ Drive train coverage shall be 24 months/unlimited mileage
- _____ Frame side rail coverage shall be 84 months/unlimited mileage
- _____ Cab perforation corrosion coverage shall be 60-months/unlimited mileage

Warranty coverage is 100% parts and labor unless otherwise noted as provided by chassis Manufacturer. Please provide pricing and structure for optional extended warranties and other support services.

Hydraulic Hooklift RFP Specifications
Acceptable brands : Swaploader and Galbreath

Hooklift System:

Minimum of 13,000 pounds lifting and dumping capacity with gross weight evenly distributed in and/or on container/body.

Hooklift shall be able to handle skid-mounted containers/bodies with lengths of 12 through 16 feet. Minimum lifting and dumping capacity must be achieved for all stated container/body lengths.

Hooklift shall have a minimum of 56 degree dump angle, on a 40" truck frame height chassis.

Skid-mounted containers/bodies shall be supported with a pair of 6-1/4" minimum diameter outside flanged rollers at the rear of the hoist, and be adjustable to accommodate bodies/containers with outside subframe rail widths of 40-1/2" or 41-5/8".

Hooklift shall be capable of being mounted to a truck chassis with a 120" cab-to-axle dimension for optimum weight distribution and stability.

Hooklift Operation:

The hooklift telescopic jib shall be capable of hydraulically sliding the container/body horizontally on the chassis to adjust weight distribution while remaining in the body locks and without lifting the container/body rails off the hoist frame. Tilting or articulating jib designs are not acceptable.

Hooklift shall have a dual rear pivot section incorporated into the hoist design to allow for both a true dump truck operation, with the container/body secured to the hooklift via body locks during the entire dump cycle, and increased mounting leverage at the beginning of the container lift cycle.

Hooklift jib to reach rearward to the A-frame lifting bar by means of double articulating hinge points (dual rear pivot) incorporated into the hoist mechanism.

All lift sections shall lock into a common rigid full-length frame to support the body/container when in a dump mode. This must be accomplished by mechanical operated latches, which lock the mast without relying on gravity or hydraulic operated locks to accomplish.

Must have a jib lockout valve to prevent jib operation while in a dump mode.

Hooklift shall be designed to function through all modes, load/unload and dump, without the use of breakaway tabs and/or proximity switches.

Dump/lift cylinders are double acting, twin cylinders, sized for the unit capacity with dual integral counterbalance valves. Dump/lift cylinders to be a minimum 5" bore, 2.5" rod diameter and 40" stroke. No external or remote mount (connected by steel lines) counterbalance valve configurations to be accepted. Cylinders must be manufactured in the U.S.A.

Telescopic jib cylinder shall be double acting, single cylinder, sized to unit capacity with a single counterbalance valve. Jib cylinder to be a minimum 3" bore, 1.75" rod diameter and 32" stroke. No external or remote mount (connected by steel lines) counterbalance valve configurations to be accepted. Cylinder must be manufactured in the U.S.A.

Hydraulic Cylinders:

Hydraulic System:

Direct mount gear type pump,

15 gallon oil reservoir tank (minimum) is to have a sight gauge to indicate fluid level with integral thermometer. Must have a 100 mesh suction strainer with bypass relief.

Must contain a return filter assembly; with replaceable 10 micron filter cartridge.

Control valve to be stackable type with JIC 37 degree fittings, and contain an integral 3,250 PSI relief valve.

High-pressure hoses to be SAE 100R2 type AT, or equivalent, rated for 3,250 PSI (minimum) working pressure with JIC 37 degree swivel fittings.

Hydraulic fittings are to be SAE O-ring boss or JIC 37 degree type wherever possible; metric fittings are not acceptable.

Dual control levers, cable operated, mounted in truck cab. Controls are to be spring centering type for safe operation.

Mainframe Design:

Hooklift hydraulic system shall be designed to allow for ease of integration into a Central Hydraulic package. The mainframe of the hoist is to be constructed of a "Z" rail configuration. The "Z" rail mainframe is to be a maximum of 6" in height and constructed of 3/16" thick A572 50 KSI steel.

Hoist "Z" frame rails to include a minimum of 6 (or 3 per side) 11-3/4" x 2-3/4" x 1/2" Nylatron wear pads for container/body support. The Nylatron pad will allow the containers/bodies to slide back and forth horizontally on the "Z" rail of the hoist with ease.

Metal to metal contact (direct contact of the container/body subframe rail on the hoist mainframe rail) will not be allowed.

Jib Hook Design:

Vertical Jib to be constructed of a 6" x 6" x 1/4" wall square tube of A500 46 KSI steel.

Jib hook height shall be 35-5/8" from the bottom of the container/body subframe rails to the bottom of the A-frame lift bar.

Hooklift shall be able to pick up a container/body that rests 6" below the grade that the truck chassis is on (assumes a 40" truck frame height).

Jib hook to be designed to secure container/body to hoist without the need for a hook latch mechanism to cover the hook opening.

Jib hook to be permanently welded to jib. No bolt on jib hook will be allowed.

Pins:

All hooklift pins to be constructed of high-strength CFR steel bar not acceptable. All pinned connections to be greasable to both lu out all contaminates.

Body Locks:

Hooklift shall have passive integral slide through body locks to secure the container/body latch plates to the hooklift in dump and transport positions; to accommodate different length bodies and to allow for weight distribution changes while remaining in the body locks when in the transport or in dump cycle.

Prong style body locks are not acceptable

Hooklift body locks shall be designed to secure the container/body to the hoist during an overturn situation of the truck chassis.

Container/Body

Subframe:

The A-frame of the container/body shall be constructed to allow the hooklift operator to approach and load the container/body on the truck chassis frame from an angle.

The skid-mounted container/body shall have integral slide through latch plates to secure body to hooklift in dump and transport positions, and to accommodate different length bodies or weight distribution changes while remaining in the body locks.

Slide through latch plates to be a minimum of 30" in length to allow the container/body to slide forward and back horizontally a minimum of 23" while remaining fully engaged in the hoist body locks.

Hooklift Options:

An optional Container Variability System shall be available for purchase from the hooklift OEM. The C.V.S. allows the hooklift to accommodate containers up to 2' shorter than recommended minimum length.

Warranty:

The hoist and components as supplied by OEM will be factory warranted free of defects in material and workmanship for a period of forty-eight (48) months on Parts, and twelve (12) months on Labor from the date of installation

Origin of Manufacture:

Hooklift to be designed and manufactured in the U.S.A

SUGGESTED SPECIFICATIONS

Hook Lift frame mounted REAR Loading REFUSE COLLECTION TRUCK BODY

INTENT:

This specification describes a hydraulically actuated packer body of the REAR loading type with the following minimum specifications necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill, transfer station and dispensing the load by means of hydraulically ejecting the load from the body. The body shall be mounted on a "Hook Lift" style frame. The body shall have standard quick disconnect hydraulic fittings and electrical connections to match the medium duty chassis. Body shall be able to be removed and installed without any equipment, other than the Hook Lift system.

GENERAL TERMS:

All equipment furnished under this contract shall be new, unused and the same as the manufacturers' current production model. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Body shall be made in the United States of America. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units as specified in this invitation to bid. The equipment furnished shall conform to ANSI Safety Standard Z245.1-2012.

WARRANTY:

Unit shall include a One-Year Complete Body warranty as standard. This warranty will cover parts and labor not including normal wear items. Hydraulic cylinders and valves will include a minimum 2 year full Warranty. Bidder shall state his normal warranty and extended warranty where available.

PARTS MANUAL:

Bidder shall furnish a complete parts, maintenance, and operator's manual with each body sold. Manufacture contacts for any needed assistance with parts and repair.

RFP QUOTATION

Bidder shall complete every space in the specification bidder's proposal column with a check mark to indicate if the item being bid is exactly as specified. If not, the "NO" column must be checked. Any comparable units will be notated and explanation to be included.

1. CAPACITY

- a. The packer body shall have a capacity, excluding the receiving hopper, of not less than:

CAPACITY

6 yd³

- b. The hopper shall have a capacity of 1 (one) cubic yards.

2. BODY DIMENSIONS

- a. The maximum outside body width shall be 75".

- b. Maximum overall length of the body and closed tailgate combined shall not exceed the following:

CAPACITY

LENGTH

6 yd³

161"

- c. Maximum overall height of the body (above the chassis rail) shall not exceed the following:

CAPACITY

HEIGHT

6 yd³

61"

3. BODY CONSTRUCTION

- a. In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.

- b. Body sides, roof and floor shall be reinforced so as to withstand continuous operation at maximum imposed loads without harmful deformation or excessive wear.

- c. Body perimeter framing shall be contour fitted to the curved sidewall sheet.

- 1. The bolster material shall be 10 gauge,.

- 2. The roof/sidewall trapezoidal crown rail material shall be 10 gauge,

- 3. The floor/sidewall skirt rail shall be 10gauge. The material shall be 1/4" high tensile, 50,000 PSI minimum yield.

- d. Body roof shall be of curved stress skin construction and shall be a minimum 10 gauge, 50,000 PSI minimum yield steel.

- e. Body sides shall be of curved stress skin construction and shall be a minimum 10 gauge, 50,000 PSI minimum yield steel. _____
- f. Body floor and hopper floor shall be minimum 1/4", 50,000 PSI minimum yield steel. _____
- g. Ram blade to be minimum 3/16", 45,000 PSI minimum yield steel. _____
- h. The body and attaching parts shall be sealed with Tersotat Joint Sealer and CavityCoat for rust prevention protection, or equal _____
- i. The body shall be undercoated with a Thixotropic material to provide protection to the underside of the refuse body. _____

4. PACKING MECHANISM

- a. The body shall have a baffle that partially separates the body from the hopper. The baffle will serve to:
 - 1. Help prevent refuse from falling into the hopper area when retracting the packer cylinder. _____
 - 2. Barrier that allows for maximum capacity of the body. _____
- a. Packing cylinders shall be and industry standard size. Must be able to be rebuilt/repack as needed. _____
- b. Operation of the loading system shall be accomplished by controls located on both sides of the hopper loading area. _____
- c. Movement of the ram must have the ability to be terminated at any time by releasing handle(s) located on either side of the body at the hopper loading area and at the rear of the body on the street side. Ram must be reversible at any position when packing hopper. _____
- d. An auto cycle feature shall allow automatic packing operation while refuse is being loaded into the hopper. _____

5. EJECTION SYSTEM

- a. Ejection of refuse shall be accomplished by raising the hydraulically controlled, hopper style tailgate and extending the packer to its rear most position and automatically engaging the packer assembly ejector

cylinder which will push the packer assembly to the rear of the body.

b. Controls for ejection shall be located at the rear of the body on the on both sides of body.

6. HYDRAULIC SYSTEM

a. Hydraulic pump shall be gear type with journal bearings.

b. Minimum pump capacity shall be 20 GPM @ 1000 rpm.

c. To minimize hydraulic cylinder weight, a high pressure hydraulic system shall be employed. The operating pressure of the system shall be 2400 PSI. Low pressure systems shall not be acceptable.

d. A minimum 10 micron return line filter with a 25 PSI by-pass valve is to be provided as part of the hydraulic system.

e. The hydraulic oil tank is to have a capacity of not less than twelve (22) gallons.

f. The hydraulic oil tank shall be fitted with an oil level sight gauge and 1 ¼" ball type suction line shut-off valve.

g. The hydraulic oil tank shall be constructed with a removable bottom flanged cover for cleaning.

h. The hydraulic oil tank shall have a sealed filler cap and shall be equipped with a 100 mesh, 140 micron, replaceable strainer. A separate breather shall be located at the top of the oil tank.

i. The hydraulic oil tank shall be chassis frame mounted underneath the body with access to filler port and filter change from ground level.

1. All hydraulic hoses are to be SAE 100R1 in low pressure areas and SAE 100R2 in all flexing and abrasive areas and all ram and shoehorn hoses to be SAE 100R12 and shall have a minimum 4.1 safety factor.

2. An electrically operated valve assembly shall be provided with sufficient capacity to operate all hydraulic components, including manual sections for cart dumper operation. System pressure and port reliefs shall be integral to the valve housing.

- 3. Tailgate shall have a manually operated valve assembly. _____
- 4. For ease of service, the valve assembly shall be located so that no level of the refuse load will be necessary to remove or obtain access to the valve assembly. _____
- 5. All valve and cylinder ports shall be straight thread "O" ring design. _____

7. CONTROLS

- a. The electrical connections for the body unit shall be located at the body front on curb side of the unit. _____
- b. Ejection, tailgate, and packing controls are located at the rear of the body on the right hand, curbside. _____
- c. Power take off (PTO) / clutch pump controls shall be conveniently mounted in the cab. Automatic idle shall be incorporated. _____

8. LIGHTING

- a. Body lighting must comply with FMVSS #108 regulations and ANSI Z245.1-1999. All exterior Must be LED style where available. _____
- b. For maximum visibility, a tail light housing must be provided on the rear body bolster on each side, consisting of two (2) red 4" stop-turn-tail lights, one (1) clear 4" back-up light, and two (2) side mounted clearance lights, mounted one per side. _____
- c. Tailgate top housing shall be provided with one (1) 3-light I.D. cluster. _____
- d. One (1) license plate bracket with light shall be provided on the rear curbside of the body. _____
- e. The fenders and mud flaps shall be bolted to the body chassis frame. Chassis frame mounting is unacceptable. _____

9. LOADING SYSTEM

Shall consist of a curbside and traffic side can lift system. The system shall be an industry standard can clamping style. System shall be made in the USA. Clamping force shall be able to lift a can of approximately 350 lbs. The can forks shall allow a can of 95 gallon style to be used. No system shall be allowed that could cause can damage. Each side must operate independent of the other _____

10. STANDARD BODY EQUIPMENT by design

- Semi Automatic Cycling
- Auto Back Pack
- Auto-Lock Tailgate
- Back-Up Alarm
- Light Bar-LED
- ICC Lights and Reflectors
- Sight Gauge on Oil Tank
- Oil Pressure Gauge
- Chrome Cylinders
- Side Access Door
- Driver Alert Buzzer
- Tailgate Ajar Indicator
- Riding Steps on Rear

11. PAINTING

- a. Shall be a six step minimum process. Must maintain premium quality OEM style paint process: Painting steps as follows: Smoothing , Purgation - A heated pressure wash, Pre-Treatment–accelerated phosphoric acid based pretreatment of body, Sealing - The entire body shall be coated with an application of the patented Dry-In-Place Seal from Henkel Surface Technologies , - Primer Coat Paint- epoxy polyamide primer-sealer, Finish Top Coat Paint- DuPont Imron Elite to match truck OEM body paint (white)

SUGGESTED SPECIFICATIONS

Hook Lift frame mounted Side Loading REFUSE COLLECTION TRUCK BODY

INTENT:

This specification describes a hydraulically actuated packer body of the side loading type with the following minimum specifications necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill, transfer station and dispensing the load by means of hydraulically ejecting the load from the body. The body shall be mounted on a "Hook Lift" style frame. The body shall have standard quick disconnect hydraulic fittings and electrical connections to match the medium duty chassis. Body shall be able to be removed and installed without any equipment, other than the Hook Lift system.

GENERAL TERMS:

All equipment furnished under this contract shall be new, unused and the same as the manufacturers' current production model. Accessories not specifically mentioned herein, but necessary to furnish complete unit ready for use, shall also be included. Unit shall conform to the best practice known to the body trade in design, quality of material and workmanship. Body shall be made in the United States of America. Assemblies, sub-assemblies and component parts shall be standard and interchangeable throughout the entire quantity of units as specified in this invitation to bid. The equipment furnished shall conform to ANSI Safety Standard Z245.1-2012.

WARRANTY:

Unit shall include a One-Year Complete Body warranty as standard. This warranty will cover parts and labor not including normal wear items. Hydraulic cylinders and valves will include a minimum 2 year full Warranty. Bidder shall state his normal warranty and extended warranty where available.

PARTS MANUAL:

Bidder shall furnish a complete parts, maintenance, and operator's manual with each body sold. Manufacture contacts for any needed assistance with parts and repair.

RFP QUOTATION

Bidder shall complete every space in the specification bidder's proposal column with a check mark to indicate if the item being bid is exactly as specified. If not, the "NO" column must be checked. Any comparable units will be notated and explanation to be included.

1. CAPACITY

- a. The packer body shall have a capacity, excluding the receiving hopper, of not less than:

CAPACITY

6 yd³

- b. The hopper shall have a capacity of 0.75 cubic yards.

2. BODY DIMENSIONS

- a. The maximum outside body width shall be 82.75".

- b. Maximum overall length of the body and closed tailgate combined shall not exceed the following:

CAPACITY

LENGTH

6 yd³

137"

- c. Maximum overall height of the body (above the chassis rail) shall not exceed the following:

CAPACITY

HEIGHT

6 yd³

75"

- d. Maximum unit height (above the chassis rail) with only tailgate raised shall not exceed the following:

CAPACITY

HEIGHT

6 yd³

107"

Maximum body and tailgate weight (exclusive of special options) shall not exceed the following:

CAPACITY

WEIGHT

6 yd³

5400 lbs.

- e. Hopper opening length shall be 32" at sill height and 40" at roof height.

- f. Inside hopper width at loading sills shall be a minimum of 64".

3. BODY CONSTRUCTION

- a. In order to prevent damage from corrosion and fire, no hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.

- b. Body sides, roof and floor shall be reinforced so as to withstand continuous operation at maximum imposed loads without harmful deformation or excessive wear.

- | | | | |
|--|--------------------------|--------------------------|-------|
| c. Body perimeter framing shall be contour fitted to the curved sidewall sheet. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| i. The forward vertical bolster shall extend from the crown rail to the skirt rail and have a web width of 5" minimum, a major flange width of 4.7" minimum and a minor flange width of 2" minimum. The bolster material shall be 14 gauge, 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| ii. The rearward vertical bolster shall extend from the crown rail to the skirt rail and shall have a web width of 5" minimum, a major flange width of 4.7" minimum and a minor flange width of 2" minimum. The bolster material shall be 12 gauge, 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| iii. The roof/sidewall trapezoidal crown rail shall extend from the forward bolster to the rearward bolster and shall have a 2" upper flange, a 3.3" lower flange, and a beam depth of 7.5". The crown rail material shall be 14 gauge, 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| iv. The floor/sidewall skirt rail shall extend from the forward bolster to the rearward bolster and shall have a 3.5" upper flange, a 7" lower flange and a beam depth of 11.7". The skirt rail shall be formed as a part of the floor assembly to eliminate all floor welds at the body lower corners. The material shall be 1/4" high tensile, 50,000 PSI minimum yield. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| d. Body roof shall be of curved stress skin construction and shall be a minimum 12 gauge, 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| e. Body sides shall be of curved stress skin construction and shall be a minimum 12 gauge, 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| f. Body floor and hopper floor shall be minimum 1/4", 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| g. Ram blade to be minimum 3/16", 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |
| h. The tailgate shall slide within a transfer sleeve constructed of minimum 3/16", 45,000 PSI minimum yield steel. | <input type="checkbox"/> | <input type="checkbox"/> | _____ |

- i. The body and attaching parts shall be sealed with Tersotat Joint Sealer and CavityCoat for rust prevention protection. _____
- j. The body shall be undercoated with a Thixotropic _____
- k. material to provide protection to the underside of the refuse body. _____

4. TAILGATE

- a. The tailgate shall be hydraulically controlled and vertically traveling. It is to be raised via two (2) hydraulic cylinders located on each side of the tailgate. Each tailgate raise cylinder shall be single stage, double acting with a 2" bore x 1.25" x [stroke].

<u>CAPACITY</u>	<u>STROKE</u>			
6 yd ³	36"	<input type="checkbox"/>	<input type="checkbox"/>	_____
- b. The tailgate shall be designed to promote rollover compaction of the refuse from the bottom rear of the body to the upper forward center. _____
- c. The lower section of the tailgate shall be hinged to allow a metered release of the refuse when the _____
- d. The lower section shall be hinged on a 3/4" cold rolled steel pin having grease zerks on the pin housing. _____
- e. Controls for the tailgate shall be located at the rear of the body on the conventional left hand, driver's side. These control handles shall be protected from tire spray by full cover rubber boots. _____
- f. The tailgate shall have props, one located on each side to hold the tailgate in the open position. _____

5. PACKING MECHANISM

- a. The body shall have a baffle that partially separates the body from the hopper. The baffle will serve to:
 - i. Help prevent refuse from falling into the hopper area when retracting the packer cylinder. _____

ii. Create a barrier that allows for maximum and continual refuse compaction.

a. Packing cylinders shall be displaced diagonally to incorporate a scissors type design. Telescopic cylinders shall be unacceptable.

b. Operation of the packing system shall be accomplished by electrical push button controls located on both sides of the hopper loading area.

c. The packer panel shall be equipped with 24" follower panels to permit continuous hopper loading and reduce errant migration of waste material forward of the packer panel. The follower panels shall be supported and guided by 2-7/8" replaceable rollers supported on spindle bosses equipped with grease zerks. The roller guides shall be 3-1/2" x 1-1/2" x 1/4" continuous formed curved channel.

d. Movement of the ram must have the ability to be terminated at any time by depressing electrical push button control located on either side of the body at the hopper loading area and at the rear of the body on the street side.

e. An auto cycle feature shall allow automatic packing operation while refuse is being loaded into the hopper.

f. Packing cycle time shall be a maximum of 16 seconds.

6. EJECTION SYSTEM

a. Ejection of refuse shall be accomplished by raising the hydraulically controlled, vertically traveling bustle tailgate and extending the packer to its rear most position and automatically engaging the packer assembly ejector cylinder which will push the packer assembly to the rear of the body.

b. Controls for ejection shall be located at the rear of the body on the conventional left hand, driver's side.

7. HYDRAULIC SYSTEM

a. Hydraulic pump shall be gear type with journal bearings.

- b. Minimum pump capacity shall be 12 GPM @ 1000 rpm. _____
- c. To minimize hydraulic cylinder weight, a high pressure hydraulic system shall be employed. The operating pressure of the system shall be 2400 PSI. Low pressure systems shall not be acceptable. _____
- d. A minimum 10 micron return line filter with a 25 PSI bypass valve is to be provided as part of the hydraulic system. _____
- e. The hydraulic oil tank is to have a capacity of not less than twelve (12) gallons. _____
- f. The hydraulic oil tank shall be fitted with an oil level sight gauge and 1 ¼" ball type suction line shut-off valve. _____
- g. The hydraulic oil tank shall be constructed with a removable bottom flanged cover for cleaning. _____
- h. The hydraulic oil tank shall have a sealed filler cap and shall be equipped with a 100 mesh, 140 micron, replaceable strainer. A separate breather shall be located at the top of the oil tank. _____
- i. The hydraulic oil tank shall be chassis frame mounted underneath the body with access to filler port and filter change from ground level. _____
- j. The balance of the hydraulic system shall contain the following:
 - i. Two (2) packing cylinders 3" bore x 1.75" rod x 34" stroke, shall be single stage, double acting. _____
 - ii. One (1) ejector cylinder shall be single stage 2.5" bore x 1.5" x [stroke].

<u>CAPACITY</u>	<u>STROKE</u>
6 yd ³	36"

 - iii. Two (2) tailgate raise cylinders shall be 2" bore x 1.25" rod x [stroke], single stage, double acting and shall incorporate a lowering speed control orifice to prevent the rapid descent of the tailgate in the event of a hydraulic failure.

<u>CAPACITY</u>	<u>STROKE</u>
6 yd ³	36"

- iv. Two (2) body lift cylinders – 3.5” bore x 1.5” rod x 20” stroke, single stage, double acting. _____
- v. All hydraulic hoses are to be SAE 100R1 in low pressure areas and SAE 100R2 in all flexing and abrasive areas and all ram and shoehorn hoses to be SAE 100R12 and shall have a minimum 4.1 safety factor. _____
- vi. An electrically operated valve assembly shall be provided with sufficient capacity to operate all hydraulic components, including manual sections for each cart dumper operation. System pressure and port reliefs shall be integral to the valve housing.
- vii. Tailgate shall have a manually operated valve assembly. _____
- viii. For ease of service, the valve assembly shall be located so that no level of the refuse load will be necessary to remove or obtain access to the valve assembly. _____
- ix. All valve and cylinder ports shall be straight thread “O” ring design. _____

8. CONTROLS

- a. The electrical controls for the packer shall be located at the body front on both sides of the unit and ergonomically correct adjacent the loading sills. _____
- b. Ejection, tailgate, and secondary packing controls are located at the rear of the body on the conventional left hand, driver’s side. _____
- c. Power take off (PTO) / clutch pump controls shall be conveniently mounted in the cab. _____

9. LIGHTING

- a. Body lighting must comply with FMVSS #108 regulations and ANSI Z245.1-1999. All exterior Must be LED style where available. _____
- b. For maximum visibility, a tail light housing must be provided on the rear body bolster on each side, consisting of two (2) red 4” stop-turn-tail lights, one (1) clear 4” back-up light, and two (2) side mounted clearance lights, mounted one per side. _____
- c. Tailgate top housing shall be provided with one (1) 3-light I.D. cluster. _____

d. One (1) license plate bracket with light shall be provided on the rear curbside of the body.

10. FENDERS

a. Fenders and mud flaps shall be provided.

b. The fenders and mud flaps shall be bolted to the body chassis frame. Chassis frame mounting is unacceptable.

11. LOADING SYSTEM

Shall consist of a curbside and traffic side can lift system. The system shall be an industry standard can clamping style. System shall be made in the USA. Clamping force shall be able to lift a can of approximately 350 lbs. The can forks shall allow a can of 95 gallon style to be used. No system shall be allowed that could cause can damage. Each side must operate independent of the other.

12. PAINTING

a. Shall be a six step minimum process. Must maintain premium quality OEM style paint process: Painting steps as follows: Smoothing , Purgation - A heated pressure wash, Pre-Treatment-accelerated phosphoric acid based pretreatment of body, Sealing - The entire body shall be coated with an application of the patented Dry-In-Place Seal from Henkel Surface Technologies , - Primer Coat Paint- epoxy polyamide primer-sealer, Finish Top Coat Paint- DuPont Imron Elite to match truck OEM body paint (white)

PROPOSAL FORM FOR HOOK LIFT MEDIUM DUTY TRUCK

(Use Multiple Forms if bidding more than one model)

Company: _____

Contact Name: _____

Email Address: _____

Address: _____

Phone: _____ Fax: _____

Federal Tax Identification Number: _____

Business License # _____ City: _____

Bid Price:

Qty	Unit	Description	Total Price
1	each	Hook Lift Medium Truck	\$ _____
<u>OPTIONAL BODY</u>			
1	assembly	Side Loading Hook Lift frame mounted Body	\$ _____
1	assembly	Rear Loading Hook Lift frame mounted Body	\$ _____

Proposed Delivery Time Frame after Receiving Order: _____

The above price is for the purchase of the following equipment:

(Chassis Manufacturer)

(Model Name/Number)

(Hook Lift Manufacturer)

(Model Name/Number)

(Side Loading Body Manufacture)

(Model Name/cubic yard)

(Rear Loading Body Manufacture)

(Model Name/cubic yard)

It is further understood and agreed by the undersigned in submitting this proposal that the Owner reserves the following rights and privileges:

- a. To accept or reject any or all proposals, and/or waive any of the informalities in the proposals.
- b. To reject all items of equipment and materials which do not conform to or exceed these specifications, without altering bid price of this proposal.

If you have questions regarding the specifications contained in this request for proposal package, please contact:

Jim Dennison, Fleet Manager
Department of Public Works
P.O. Box 5500, Sevierville, TN 37864
(865) 429-4567, voice; (865) 453-5518, fax
jdennison@sevierville.tn.org

Proposal Submitted by:

Authorized Signature

Name (Printed)

Title

Date

Title VI Information

It is the policy of the City of Sevierville to ensure compliance with Title VI of the Civil Rights Act of 1964: 49 CFR, Part 21; related statues and regulations to that end that no person shall be excluded from participation in or be denied benefits of, or be subjected to discrimination under any program or activity receiving federal financial assistance or any other funding source on the grounds of race, color, sex, national origin, or ancestry. By virtue of submitting a response to this solicitation, bidders agree to comply with the same non-discrimination policy.

Bid Item/Project Name: _____

Bid Date: _____

*For Title VI and IX compliance, we ask for voluntary disclosure of the following information for the majority owner of the business:

Gender:	<input type="checkbox"/> Male	<input type="checkbox"/> Female
Race:	<input type="checkbox"/> Caucasian	<input type="checkbox"/> African American
	<input type="checkbox"/> Other (please specify)	

Company Name: _____

The City of Sevierville does not discriminate based on race, color, or national origin in federal or state sponsored programs, pursuant to Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d.)

City of Sevierville

P.O. Box 5500
Sevierville, TN 37864-5500
865-453-5504

VENDOR INFORMATION FORM

Name: _____

Federal Tax ID Number: _____

Business License Number: _____

County and State of License: _____

Mailing Address: _____

Shipping Address: _____

Phone Number: _____

Fax Number: _____

Contact Person: _____

Email Address: _____

Corporation, Sole Proprietor, or Partnership: _____

(If the business is a sole proprietor, the owners name): _____

NEW VENDORS WILL BE ADDED AFTER RECEIPT OF THIS COMPLETED FORM AND VERIFICATION OF A CURRENT BUSINESS LICENSE. VENDORS WITHOUT A CURRENT BUSINESS LICENSE WILL NOT BE ACCEPTED. IT IS THE RESPONSIBILITY OF THE FINANCE DEPARTMENT TO ENTER AND UPDATE ALL VENDOR INFORMATION. THANK YOU.

Revised 1/22/2015

**Request for Taxpayer
Identification Number and Certification**

Give form to the
requester. Do not
send to the IRS.

Print or type
See Specific Instructions on page 2.

Name (as shown on your income tax return)

Business name, if different from above

Check appropriate box: Individual/Sole proprietor Corporation Partnership
 Limited liability company. Enter the tax classification (D=disregarded entity, C=corporation, P=partnership) ▶ Exempt payee
 Other (see instructions) ▶

Address (number, street, and apt. or suite no.) Requester's name and address (optional)

City, state, and ZIP code

List account number(s) here (optional)

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on Line 1 to avoid backup withholding. For individuals, this is your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the Part I instructions on page 3. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN* on page 3.

Note. If the account is in more than one name, see the chart on page 4 for guidelines on whose number to enter.

Social security number
OR
Employer identification number

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me), and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding, and
- I am a U.S. citizen or other U.S. person (defined below).

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the Certification, but you must provide your correct TIN. See the instructions on page 4.

Sign Here Signature of U.S. person ▶ Date ▶

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Purpose of Form

A person who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) to report, for example, income paid to you, real estate transactions, mortgage interest you paid, acquisition or abandonment of secured property, cancellation of debt, or contributions you made to an IRA.

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN to the person requesting it (the requester) and, when applicable, to:

- Certify that the TIN you are giving is correct (or you are waiting for a number to be issued),
- Certify that you are not subject to backup withholding, or
- Claim exemption from backup withholding if you are a U.S. exempt payee. If applicable, you are also certifying that as a U.S. person, your allocable share of any partnership income from a U.S. trade or business is not subject to the withholding tax on foreign partners' share of effectively connected income.

Note. If a requester gives you a form other than Form W-9 to request your TIN, you must use the requester's form if it is substantially similar to this Form W-9.

Definition of a U.S. person. For federal tax purposes, you are considered a U.S. person if you are:

- An individual who is a U.S. citizen or U.S. resident alien,
- A partnership, corporation, company, or association created or organized in the United States or under the laws of the United States,
- An estate (other than a foreign estate), or
- A domestic trust (as defined in Regulations section 301.7701-7).

Special rules for partnerships. Partnerships that conduct a trade or business in the United States are generally required to pay a withholding tax on any foreign partners' share of income from such business. Further, in certain cases where a Form W-9 has not been received, a partnership is required to presume that a partner is a foreign person, and pay the withholding tax. Therefore, if you are a U.S. person that is a partner in a partnership conducting a trade or business in the United States, provide Form W-9 to the partnership to establish your U.S. status and avoid withholding on your share of partnership income.

The person who gives Form W-9 to the partnership for purposes of establishing its U.S. status and avoiding withholding on its allocable share of net income from the partnership conducting a trade or business in the United States is in the following cases:

- The U.S. owner of a disregarded entity and not the entity,