

Request for Bids

Sealed bids will be received at the office of the Purchasing Director, City of Goodlettsville, 105 South Main Street, Goodlettsville, Tennessee 37072, until 2:00 p.m. CST, on October 17, 2019, at which time they will be opened for the following:

Sideloaded Satellite Refuse Collection Truck Body by the Parks and Recreation Department, City of Goodlettsville

Specifications are available and on file at the office of the Purchasing Director and may also be accessed from the City's website at www.goodlettsville.gov.

The City of Goodlettsville reserves the right to reject any and all bids and to waive formalities.

The City of Goodlettsville does not discriminate on the basis of age, race, sex, color, national origin, religion or disability in admission to, access to, or operation of its programs, services or activities, nor does it discriminate in its hiring, employment or purchasing practices. Contact the Human Resource Director at 615.851.2206 with questions, concerns, complaints and with requests for ADA accommodations.

City of Goodlettsville

**Minimum Bid Specifications
Sideloaded Satellite Refuse Collection Truck Body**

SCOPE: It is the intent of this specification to describe a hydraulically actuated packer body of the side loading type with the following minimum specifications considered necessary to perform the work assigned. The body shall be capable of compacting and transporting refuse to a landfill or transfer station and dispense the load by means of hydraulic ejection. The body shall not be required to be tilted, lifted, or otherwise displaced from the chassis in order to eject the load, but shall also be capable of dispensing its load into a rear loading refuse packer or container by means of a variable type body lift.

GENERAL: All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete unit ready for use, shall also be included. The equipment furnished shall conform to all ANSI Safety Standards Z245.1 – 2008.

Bidder Shall Complete the Following If No, State Specifically the Item Being Offered on a Separate Page

	YES	NO
I. CHASSIS-CAB SPECIFICATIONS: New and Unused, 2020 Conventional Cab-Chassis, 108" CA (Minimum), White. 19,500# GVWR Minimum. Chevrolet Silverado Medium Duty, 2 WD, or Equal. Work Truck Preferred Equipment Group.	_____	_____
A. ENGINE:		
1. Duramax, 6.6 L minimum, Diesel, B20 compatible, V-8. 350 Hp @ 2700 RPM, 700 Lb-Ft Torque @ 1600 RPM. 2900 RPM.	_____	_____
2. Exhaust Brake.	_____	_____
3. Two (2) H.D. Batteries 1100 CCA. Battery Top Post Threaded for Jump Start Stud.	_____	_____
4. 150 Amp Alternator.	_____	_____
5. DPF with Manual Regeneration available.	_____	_____
6. Cruise Control, Steering Wheel Controlled.	_____	_____
7. Rear Exit Exhaust.	_____	_____
B. TRANSMISSION: Allison Automatic A1750RDS 6-Speed, Rugged Duty Service with PTO Provisions.	_____	_____
C. FRONT AXLE & SUSPENSION:		
1. 8,000# Capacity Dana Spicer D800N "I" Beam Front Axle.	_____	_____
2. Front Stabilizer Bar.	_____	_____
3. 8,000# Multi-Leaf Front Suspension with Shock Absorbers.	_____	_____
4. Power Steering.	_____	_____
D. REAR AXLE & SUSPENSION:		
1. 15,000# Single-speed Dana Spicer S16-130 Limited Slip TruTrac Rear Axle.	_____	_____
2. 15,500# Multi-Leaf Variable Rate Rear Suspension.	_____	_____
3. Rear Axle Ratio 4.30.	_____	_____
4. Rear Synthetic Axle Lubricant, EmGard FE-75W-90 Oil.	_____	_____
E. BRAKES:		
1. Brakes, Hydraulic, Heavy Duty Bosch/Meritor/Wabco System With 4-Channel (ABS).	_____	_____
2. Driveline Parking Brake.	_____	_____
3. In Cab Trailer Brake Controller with Wiring Harness.	_____	_____
F. FUEL TANK: Front Mounted 25 Gallon Tank with DEF tank.	_____	_____
	YES	NO
G. WHEELS & TIRES:		
1. 19.5 X 6.75 8-Hole, Hub Piloted Steel Wheels, Grey.	_____	_____
2. 225/70R 19.5 G (14PR) Tires, Goodyear Highway Blackwall.	_____	_____
H. CAB EQUIPMENT:		

- | | | |
|--|-------|-------|
| 1. Black Front Bumper with Front Frame Mounted Tow Hooks and Front License Plate Bracket. | _____ | _____ |
| 2. Intermittent Windshield Wipers & Washers. | _____ | _____ |
| 3. Integral Air Conditioner with Heater and Defroster. | _____ | _____ |
| 4. Chrome Grille with Grille Guard for Stone and Insect Protection. | _____ | _____ |
| 5. Tinted Glass. | _____ | _____ |
| 6. Heated Outside Mirrors, Power Adjustable for Vertical Trailing, Manual Folding and Extending. | _____ | _____ |
| 7. 4G LTE Wi-Fi Hotspot. | _____ | _____ |
| 8. Dual Note Horn. | _____ | _____ |
| 9. AM/FM/ Weather Band w/Bluetooth, USB and auxiliary inputs. 110 V Power Outlet. | _____ | _____ |
| 10. Driver Information Center, 3.5" monochromatic display for Warning Messages and Basic Vehicle Information. | _____ | _____ |
| 11. Audio System, 7" Diagonal Color Touch-Screen with Chevrolet Infotainment, AM/FM Stereo With Seek-And-Scan and Digital Clock. Rear Vision Camera Display. | _____ | _____ |
| 12. Single Stage Frontal Air Bags for Driver and Passenger. Air Bag Deactivation Switch. | _____ | _____ |
| 13. Remote Keyless Entry with Power Door Locks and Powered Windows with Driver Express Up and Down. Express Down on Curbside. | _____ | _____ |
| 14. 40/20/40 Seat. Interior Trim Jet Black/Dark Ash. Graphite Colored Rubberized Floor Covering. | _____ | _____ |
| 15. Front Fender Extensions. Entry Assist Steps. | _____ | _____ |

I. WARRANTY: Bidder Shall State Warranty. _____

II. BODY SPECIFICATIONS:

YES NO

A. CAPACITY:

- | | | |
|---|-------|-------|
| 1. The capacity shall be measured exclusive of the hopper. | _____ | _____ |
| 2. The body shall have a minimum capacity of 6 cubic yards. | _____ | _____ |
| 3. The body shall have an average compaction rate of 600-800 pounds per cubic yard. | _____ | _____ |
| 4. The hopper shall have a capacity of 1.0 cubic yards. | _____ | _____ |

B. BODY DIMENSIONS:

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|--|-------|-------|
| 1. Maximum overall width not to exceed 90". | _____ | _____ |
| 2. Maximum of 165" overall length and 79" height (with tailgate in closed position) above the chassis frame. | _____ | _____ |
| 3. Body height above the truck frame with the tailgate fully extended shall not exceed 132". | _____ | _____ |
| 4. Body weight including body lift sub frame shall not exceed 5,350 pounds. | _____ | _____ |

C. BODY CONSTRUCTION:

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|---|-------|-------|
| 1. The body shall be constructed entirely of high strength sheet steel and formed sections. | _____ | _____ |
| 2. Body sides, roof and floor shall be reinforced with bracing to withstand continuous operation at maximum loads without harmful deformation or wear. | _____ | _____ |
| 3. Hopper floor and sides shall be ¼" 50,000 PSI high tensile steel. | _____ | _____ |
| 4. Body lower sides extending 15" from floor shall be 7 gauge 50,000 PSI high tensile steel. | _____ | _____ |
| 5. Body floor shall be 7 gauge 50,000 PSI steel. | _____ | _____ |
| 6. The upper sides shall be constructed of no less than 12 gauge sheet steel. | _____ | _____ |
| 7. The sides and roof shall be braced with no less than 11 gauge 3" x 4" tubing with full seam welds. | _____ | _____ |
| 8. The body sides shall be additional reinforced with a horizontal brace constructed of no less than 10 gauge formed bracing with full seam welds. | _____ | _____ |
| 9. The body floor shall incorporate a trough design (flat floor designs are not acceptable). | _____ | _____ |
| 10. The body floor center shall be ¼" plate steel. | _____ | _____ |
| 11. The trough shall be constructed of 6" channel sills to hold the packing / ejection panel in line under the most extreme load conditions. | _____ | _____ |
| 12. The packing / ejection cylinder shall be protected during the packing cycle by a 10 gauge steel follower panel assembly to prevent refuse from reaching the cylinder. | _____ | _____ |

D. BODY LOADING AREA:

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| 1. The load area shall be equipped with loading doors with safety interlocks to prevent packing unless doors are in closed position. | _____ | _____ |
| 2. The loading doors shall latch in both the open and closed positions. | _____ | _____ |
| 3. Shall be capable of ejecting its load into any rear loading refuse packer with a loading height of | _____ | _____ |

YES NO

up to 46" above the ground and with a hopper width of 72" or more.

4. The operating controls allow packing / ejection panel to pack and return to the front of the unit automatically, ready for the next load.

E. PACKING / EJECTION PANEL CONSTRUCTION:

1. Packing / Ejection panel shall be constructed of formed 3/8" 50K plate.
2. The packing / ejection panel shall slide in a 6" channel sill on a UHMW bearing surface.
3. The load shall be discharged by means of a positive ejection system. One double acting, telescopic cylinder shall extend and retract the full length of the body performing both compaction and ejection of the load.
4. The telescopic cylinder shall be horizontally positioned and as a minimum be 4 stages and 6.5" bore.

F. TAILGATE:

1. The tailgate shall be a bubble type tailgate constructed of a minimum of 10 gauge high tensile steel reinforced by the tailgate frame which shall be constructed of a minimum of 1/4" wall 3" x 3" structural tube.
2. Tailgate sides shall be constructed of no less than 10 gauge high strength sheet steel.
3. The tailgate shall be hydraulically raised, lowered, and locked by means of two double acting, 2.5" bore x 60" cylinders with restrictors, and shall be capable of being raised while positioned for unloading into a rear loader.
4. The tailgate cylinders shall be mounted on the body sides and covered with 14 gauge sheet protective steel panels.
5. The tailgate shall have an automatic locking mechanism to ensure a tight seal preventing leakage.
6. The tailgate controls shall be positioned at both the driver's side front and rear of the body. These controls shall allow the tailgate to be completely raised, lowered, and locked from either position without operator intervention to maintain operator safety.

G. BODY LIFT:

1. Body lift controls shall be mounted at the front and rear of the body on the driver's side.
2. Body lift shall be hydraulically operated to produce a variable, stable body lift.
3. Body lift shall be incorporated allowing load transfer into a rear loader.

H. BODY LIFT CONSTRUCTION:

1. Body lift sub-frame shall be constructed of no less than 1/4" wall 2" x 4" tube and braced with 1/4" wall and 2" x 4" tube.
2. Body lift shall be incorporated (2) 3" x 16" 2-way cylinders to raise body.

I. HYDRAULIC SYSTEM:

1. The hydraulic pump shall be mounted to the PTO by the direct method and shall provide a flow of 17 gallons per minute.
2. An electrical device shall be supplied to automatically raise the engine speed to the proper RPM during the packing cycle.
3. The oil reserve tank shall have a minimum capacity of 24 gallons to maintain an adequate oil supply, and shall be fitted with a sight gauge and breather.
4. Valve shall be mechanically, or electrically, operated and equipped to be stopped, or reversed, at any time during operation for operator safety.
5. Hydraulic system shall be fitted with a shut-off valve, pressure relief valve, a pressure gauge and a 10 micron filter in the return line to remove impurities.
6. The hydraulic system working pressure shall be set at a maximum of 2,000 PSI to reduce heat buildup and to maintain the normal compaction of the payload.
7. All hydraulic hoses shall conform to S.A.E. Standards. No flat spots in hoses will be acceptable.

J. ELECTRICAL:

1. All wiring shall be loomed or in conduit.
2. The body shall be equipped with approved LED clearance, warning, tail, license, stop and turn signals in compliance with the national safety standards.
3. The body shall be equipped with an external audio back up alarm activated when the truck is in reverse.
4. A light shall illuminate in the cab when the tailgate is open and/or the body is raised and an

YES NO

- audible alarm will sound when the vehicle is placed in reverse while the tailgate is open. _____
5. A safety switch shall prevent the packing / ejection panel from cycling unless the lower hopper door is closed to maintain operator safety. A manual reset button is required to re-activate cycling system. _____
6. A hydraulic system shutdown switch is to be located at the rear controls of the packer. A manual reset button is required to re-activate the system located at the front and rear of the body. _____
7. Minimum 5.6" rear vision color camera system shall be installed. _____
8. Safety shut down switches located each side of body near packing controls. _____
9. Strobe light shall be mounted on the rear body roof. The light shall be activated by a switch located inside the cab of the chassis. _____

K. CART TIPPERS: Two (2) cart tippers (one curbside and one streetside) capable of lifting and dumping domestic 65 and 95 gallon two wheel carts shall be mounted at the loading area of the body. All associated hydraulic components shall be supplied. _____

L. PAINT:

1. The body shall be properly cleaned of all dirt, oil, and welding slag. A gray lead-free primer with rust inhibitors shall be applied. _____
2. DuPont Imron 5000 to match cab shall be applied. _____

M. MOUNTING:

1. The body shall be mounted in accordance to industry standards. No welding shall be performed on the chassis frame in the mounting process. _____
2. 10 pound fire extinguisher mounted on the body. _____
3. First Aid Kit and triangle reflector kit located in cab. _____

N. WARRANTY:

1. Manufacturer's limited warranty shall apply for a period on one year after date of acceptance of unit. _____
2. Hydraulic cylinders shall have a two year warranty after date of acceptance of unit. _____

REQUEST FOR BID

**City of Goodlettsville
Sideloaded Satellite Refuse Collection Truck Body**

Contract Price \$ _____

Company Name

Authorized Signature

Address

Phone Number

Date