



PROPOSALS

FOR

TWO (2) 2019 MODEL, 22 YARD  
AUTOMATED SIDE LOAD  
REFUSE TRUCKS

SOLID WASTE/RECYCLING DEPARTMENT  
CITY OF DICKINSON

Bids Received & Opened  
February 7, 2019  
2:00 PM MST

CITY OF DICKINSON  
DICKINSON, NORTH DAKOTA

ADVERTISEMENT FOR PROPOSALS  
FOR

TWO (2) 2019 MODEL, 22 YARD  
AUTOMATED SIDE LOAD  
REFUSE TRUCKS

SOLID WASTE/RECYCLING DEPARTMENT  
CITY OF DICKINSON  
NORTH DAKOTA  
JANUARY 2019

Sealed proposals will be received by the City of Dickinson, North Dakota, at the Public Works Facility, 3411 Public Works Blvd., until 2:00 PM, MST, Thursday, February 7, 2019 for the purchase of two (2) automated side load refuse trucks, at which time the proposals meeting bid requirements will be opened and read. Proposals received after this time will be returned to the dealer unopened. The proposals will be considered at a subsequent regular meeting of the Dickinson City Commission.

Bids must be submitted on the forms and pursuant to the specifications furnished by the City of Dickinson and in accordance with all terms and conditions contained therein.

All proposals will be on the basis of cash payment for the equipment provided and accepted as stipulated under the bid documents and minimum specifications. Cash payment will be made within thirty (30) days of delivery of equipment. Copies of the bid documents and specifications may be obtained from the Solid Waste/Recycling Manager. All proposals must be sealed and plainly marked: "**Proposal for 2019 Automated Side Load Refuse Trucks**".

Each bid must be accompanied by a Bid Bond or certified check payable to the City of Dickinson for five percent (5%) of the total amount of the bid according to Section 48-02-04.4 of the North Dakota Century Code. The bond or check will be held as a guarantee of good faith and terms of the bid, if accepted. The Bidder's Bond or check must be enclosed in a separate envelope attached to the exterior of the bid envelope and marked bid bond.

The City of Dickinson reserves the right to reject any, and all bids, to waive informalities in any bid, to hold bids under consideration for a period of not to exceed sixty (60) days from said date of opening of bids, and to accept the bid that is deemed to be in the best interest of the City of Dickinson.

Dated this 16<sup>th</sup> day of January 2019.

**CITY OF DICKINSON,  
DICKINSON, NORTH DAKOTA**

**S/Joseph Gaa**  
**CITY ADMINISTRATOR**

## General Specifications

1. Proposals may be rejected, if they show additions not called for, conditional or alternate bids, incomplete bids, irregularities of any kind or if they contain a clause in which the bidder reserved the right to accept or reject a contract awarded to them.
2. No proposal will be considered unless accompanied by a certified check of the bidder on a solvent North Dakota bank or a bidders bond in an amount equal to five (5) percent of bid, made payable to the City of Dickinson, which check will be forfeited to the City of Dickinson should the bidder fail to effect a contract. The Bidder's Bond must be enclosed in a separate envelope attached to the exterior of the bid envelope containing the sealed bid according to Section 48-02-04.4 of North Dakota Century Code.
3. The total price is to include all discounts and deductions and is to be less federal excise tax for which exemption certificate will be furnished. Proposals may contain factory or dealer incentives, including lease or rental options.
4. The bidder shall submit Detailed Manufacturer's Specifications along with this proposal and upon acceptance; same shall become a part of these specifications as if originally contained herein, in so far as they do not conflict with these specifications. In the event of a conflict between the General Specifications and the Detailed Specifications, the latter will govern.
5. Where it is not readily determinable to the City of Dickinson as to the accessories included or not included, the bidder shall attach to the proposal a complete statement listing this information.
6. Purchases by the City of Dickinson are not subject to the North Dakota State Sales Tax.
7. The City of Dickinson reserves the right to waive any of the specifications as is deemed necessary for the best interest of the City of Dickinson or are found not to comply with government regulations.
8. The successful bidder must furnish two (2) complete sets per unit of manuals including operator's manual, maintenance book, parts manual, repair manual with wiring diagrams, complete service manual, and any other available manuals for the complete truck. Two hard copies and two digital copies of all listed manuals must be included in the purchase price. If on-line manuals are available, access must be at no cost to the City of Dickinson for the life of the equipment. In addition, any cables for trouble-shooting or software must be included.
9. Awards will be made based on the best value offered, based upon the City's evaluation of all accepted bids, including any factory or dealer incentives. Clauses requiring specific guarantees to cover parts delivery, total repairs, and resale value may be included. The quality of the articles to be supplied, their conformity with the specifications, their suitability to requirements, delivery terms, and guarantee clauses shall be taken into consideration.
10. All questions will be directed to: Mr. Aaron Praus, Solid Waste/Recycling Manager at 701-456-7840, 3411 Public Works Blvd., Dickinson, North Dakota, 58601
11. The Detailed Specifications list all items/features desired by the City of Dickinson. In the event that a machine manufacturer or bidder cannot or will not furnish any alternative options as called for by the City, the City will assess a specific value on this feature or option and add this amount to the bid price to determine the total low cost of the machine.
12. The successful bidder will be required to provide on the job type training up to two days to instruct City personnel in proper safe operation, lubrication and maintenance for the new units purchased.

Bidder's Initials \_\_\_\_\_

## General Specifications

13. The units to be bid under this advertisement shall be a new 2019 model of the latest design meeting the specifications provided herein.
14. The City of Dickinson reserves the right to reject any and all bids, to waive technicalities or informalities in any bid and to hold bids under consideration for a period not to exceed sixty (60) days from said date of opening of bids, and to accept the bid that is deemed to be in the best interest of the City of Dickinson.
15. The bidder shall list on a separate sheet of paper any variations from, or exceptions to, the conditions and specifications of this bid. This sheet shall be labeled **“Exception(s) to Bid Conditions and Specifications”**, and shall be attached to the bid.
16. The successful bidder must maintain a dealership within the State of North Dakota and maintain a parts and service department within the State and must maintain a service facility within 350 miles of the City of Dickinson. All warranty work shall be done within 5 miles of Dickinson or with mobile service vehicle. All transportation costs shall be borne by the dealer if warranty work is done beyond 5 miles.
17. Priority will be given to North Dakota Dealerships that offer service and maintenance repairs at locations in Dickinson, ND.
18. Provide a list of current refuse users in our area that are using this make and model for this type of application.
19. Delivery: Complete unit will be delivered to and F.O.B. the City Of Dickinson, 3411 Public Works Blvd., Dickinson, North Dakota.
20. Proposal must state the number of days for delivery from the time of order. Failure to meet delivery date will result in a penalty assessed against the purchase price at \$150.00 per day; not to exceed 2.5% of the total price.
21. 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. 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 Z245.1-1999.
22. Bidder shall complete every space in the specification bidder's proposal column with a check mark to indicate if the item bid is exactly as specified. If not, the "NO" column must be checked and a detailed description of the deviation from the specification must be supplied.

Bidder's Initials \_\_\_\_\_

**GENERAL SPECIFICATIONS**

Yes

No

1. This specification describes the truck chassis that must be supplied to the Refuse Body Manufacturer. The truck chassis manufacturer shall furnish to the Body Manufacturer, the required wheelbase and cab to axle C/A dimensions for the equipment complying with these specifications. All equipment furnished under this contract shall be new, unused and the same as the manufacturer's current production model. Accessories not specifically mentioned here, but necessary to furnish a complete truck unit ready to use, shall also be included. Unit shall conform to the best practice known to the truck trade in design, quality of materials and inter-changeable throughout the entire quantity of units specified.

\_\_\_\_\_

\_\_\_\_\_

2. Truck shall include all standard equipment not specifically mentioned in this specification.

\_\_\_\_\_

\_\_\_\_\_

3. The truck manufacturer shall supply to the body manufacturer a chassis that does not require moving or altering battery boxes, air tanks exhaust systems, hydraulic tank or any other component necessary to complete body mounting operations.

\_\_\_\_\_

\_\_\_\_\_

4. Successful bidder shall supply a complete unit (truck and refuse body) equipped with at least a 22 yd<sup>3</sup> capacity excluding hopper, right side loading. Automated lift arm shall be capable of lifting ANSI approved container ranging from 30 to 300 gallons.

\_\_\_\_\_

\_\_\_\_\_

5. The automated arm and packer shall be operated from the right side of the cab.

\_\_\_\_\_

\_\_\_\_\_

6. The automated arm unit shall also have the ability to be operated from the ground level outside the cab.

\_\_\_\_\_

\_\_\_\_\_

7. Grip arms shall be pad style.

\_\_\_\_\_

\_\_\_\_\_

8. The preferred reach of the arm shall be a minimum of 144" from its full retracted position.

\_\_\_\_\_

\_\_\_\_\_

**Safety and Compliance**

1. Refuse body shall meet OSHA regulations with proper shielding and visible warning labels.

\_\_\_\_\_

\_\_\_\_\_

2. Complete unit shall meet all applicable standards and regulations in effect at the time of manufacture.

\_\_\_\_\_

\_\_\_\_\_

**Cab and Chassis**

1. The chassis frame shall be straight frame with full liner.

\_\_\_\_\_

\_\_\_\_\_

2. Cab shall be wide, forward with hydraulic tilt and factory installed right hand steer.

\_\_\_\_\_

\_\_\_\_\_

3. Cab shall have a RH and LH cloth air ride seats with armrest.

\_\_\_\_\_

\_\_\_\_\_

Bidder's Initials \_\_\_\_\_

Yes No

- 4. Cab shall have air conditioning and high output heater. \_\_\_\_\_
- 5. Cab shall have tilt steering column with a 16" maximum steering wheel diameter. \_\_\_\_\_
- 6. Cab shall have remote adjustable, heated mirrors with extra convex mirrors for additional visibility. \_\_\_\_\_
- 7. Frame shall have front and rear tow hooks. \_\_\_\_\_
- 8. Instrument panel shall have full instrumentation including hour meter, transmission temperature and air filter restriction gauge. \_\_\_\_\_
- 9. AM/FM radio. \_\_\_\_\_
- 10. Power supply, antenna, and ground shall be provided for the installation of a two-way radio. \_\_\_\_\_
- 11. A color split screen camera monitoring system with cameras monitoring the automated arm, hopper, front, rear and LH side of truck. Factory installed is preferred. \_\_\_\_\_
- 12. Monitor shall be mounted in the upper right corner of the cab. \_\_\_\_\_
- 13. Bidder shall work with chassis manufacture(s) to ensure proper chassis specifications are complete. \_\_\_\_\_

**Engine**

- 1. Diesel engine shall be a wet sleeve design. \_\_\_\_\_
- 2. Engine shall be a minimum of 345 HP at 1900 RPM. \_\_\_\_\_
- 3. Engine shall have a 120v block heater. \_\_\_\_\_
- 4 All coolant hoses must be silicone. \_\_\_\_\_
- 5. Clutched radiator fan. \_\_\_\_\_
- 6. Exhaust system – outbound vertical muffler. \_\_\_\_\_
- 7. Aluminum fuel tank with minimum capacity of 70 gallons. \_\_\_\_\_

**Transmission and Driveline**

- 1. Allison MD 3000 RDS transmission, 5 speed with auto neutral function. \_\_\_\_\_
- 2. Push button, console mounted controls. \_\_\_\_\_
- 3. Vocational codes – 3430 Refuse/mixer on highway, must be able to operate in gear at idle. \_\_\_\_\_

Bidder's Initials \_\_\_\_\_

Yes No

- 4. Heavy duty oil cooler. \_\_\_\_\_
- 5. Synthetic fluid. \_\_\_\_\_
- 6. Driveline: minimum 1760HD or equivalent \_\_\_\_\_

**Axles**

- 1. Front Axles: minimum 20,000 lbs. wide track with visible oil seal caps. \_\_\_\_\_
- 2. Rear Axles: minimum capacity of 30,000 lbs. wide track single drive with synthetic gear lube. \_\_\_\_\_
- 3. Full locking wheel differential. \_\_\_\_\_

**Suspension, Tires, and Wheels**

- 1. Suspension system shall be Reyco 101CC or approved equal. \_\_\_\_\_
- 2. Front wheels: hub piloted aluminum with Michelin XZUS2. \_\_\_\_\_
- 3. Rear wheels: hub piloted Accuride steel painted white with Michelin XDN2. \_\_\_\_\_

**Refuse Body**

- 1. Refuse body shall be curved shell design capable of retaining liquid to thirty inches. \_\_\_\_\_
- 2. All major wear items shall be made out of high abrasion resistant steel with a Brinell rating of 400 and tensile strength of 180,000 psi. This shall include such items as floor, guides, rollers, slides, channels, or any other component that will receive high wear. \_\_\_\_\_
- 3. Floor shall be minimum 1/4" thick. \_\_\_\_\_
- 4. Refuse body shall have a minimum capacity of 22yds<sup>3</sup> excluding hopper. \_\_\_\_\_
- 5. Hopper shall be protected to height of body on 3 sides to limit wind blown debris. \_\_\_\_\_
- 6. Maximum dump height of arm shall be no more than 108". \_\_\_\_\_
- 7. Hopper shall be equipped with an automatic covering system to eliminate debris from exiting the hopper while in transport. \_\_\_\_\_
- 8. Pre-Crusher plate shall be provided if available. \_\_\_\_\_
- 9. Work lights for both the hopper area and picking area for automated arm. \_\_\_\_\_
- 10. Hopper shall have broom and shovel brackets with easy access to operator. \_\_\_\_\_

Bidder's Initials \_\_\_\_\_

- |   | Yes   | No    |
|---|-------|-------|
| 11. Hydraulically controlled tailgate and latches operated from inside the cab by a protected switch. | _____ | _____ |
| 12. Tip to dump for unloading material is preferred.  | _____ | _____ |
| 13. Lift arm restraint and/or buzzer to prevent arm movement when in transit.                         | _____ | _____ |
| 14. Body and chassis shall be white in color.   | _____ | _____ |

**Controls**

- |  |       |       |
|--|-------|-------|
| 1. Joystick and self-centering return to neutral controls mounted inside the cab for automated arm system. Controls shall be placed for operator ease and include an padded armrest. | _____ | _____ |
| 2. Auxiliary controls located on the lower right side of the seat for plenum and automated arm system. Controls can be reached from ground level.                                    | _____ | _____ |
| 3. Pack on the go if available.  | _____ | _____ |
| 4. Operator shall have the ability to feather the control lever to vary the speed of the arm.  | _____ | _____ |
| 5. Operation of arm, after gripping container, will dump and return the container to the original location.  | _____ | _____ |

**Hydraulic System**

- |   |       |       |
|---|-------|-------|
| 1. Hydraulic system shall have low-level warning indicators, visual and audible.  | _____ | _____ |
| 2. Hydraulic pump shall be a remote mounted tandem vane pump with transmission driven constant duty P.T.O. The hydraulic pump shall operate in gear at idle and have ability to turn pump on/off with switch. | _____ | _____ |
| 3. Hydraulic tank shall have a capacity of 40 gallons with in tank coolant heater.  | _____ | _____ |
| 4. All hydraulic valves shall be solenoid controlled electric over hydraulic. Pneumatically controlled valves are not acceptable.   | _____ | _____ |
| 5. All lift arm hydraulic controls shall be electric over hydraulic.  | _____ | _____ |
| 6. Unit shall have the ability to work at idle.   | _____ | _____ |
| 7. Hydraulic system shall have a suction strainer of 140 microns and return filter with a 10 micron rating.   | _____ | _____ |
| 8. The return filter shall have an audible and visual filter bypass monitor, which shall alert the operator when the filter is in by-pass.  | _____ | _____ |
| 9. A hydraulic pump shut down system shall also be included which shall prohibit prolonged operation of hydraulics when return filter is in by-pass mode.   | _____ | _____ |

Bidder's Initials \_\_\_\_\_



Yes No

10. The pump shall be a remote mount tandem vane pump with transmission driven constant duty PTO. The hydraulic pump shall operate in gear at idle and have the ability to turn pump on/off with switch.

\_\_\_\_\_

**Lighting and Electrical**

1. All lighting except headlight shall use LED if available.

\_\_\_\_\_

2. Flashing warning system shall use signal lights and automatically switch to signals when turn signal is activated.

\_\_\_\_\_

3. All electrical connections to be soldered and weatherproof.

\_\_\_\_\_

4. Peterson Multi-function Smart Light system or approved equal.

\_\_\_\_\_

5. Electronic back-up alarm.

\_\_\_\_\_

6. Aluminum battery box with master disconnect switch and remote start jumper studs

\_\_\_\_\_

**Air System**

1. Air dryer shall be a Bendix AD-IP-EP or approved equal.

\_\_\_\_\_

2. Air tank shall have a heated drain valve, with pull cords.

\_\_\_\_\_

**Maintenance**

1. All system components are easily accessible and suitable for maintenance and repair with common hand tools.

\_\_\_\_\_

2. Grease fittings shall be incorporated into banks that are accessible from the standing position on the ground. Use of copper or steel lines is recommended wherever possible.

\_\_\_\_\_

3. Each unit must contain one operator and parts manual for the truck and refuse body.

\_\_\_\_\_

4. Each unit must contain one complete repair manual including electrical schematics for the refuse body and all subcomponents.

\_\_\_\_\_

**Warranty**

1. Chassis

A. Structural components of Cab: 3 year/unlimited miles.

\_\_\_\_\_

B. Frame rails, gussets and cross members: 5 year/unlimited.

\_\_\_\_\_

C. Engine – 2 year/250,000 miles (standard)

\_\_\_\_\_

D. Additional engine warranty – 60 months/100,000 miles.

\_\_\_\_\_

E. Exhaust after-treatment – 60 months/100,000 miles.

\_\_\_\_\_

F. Allison transmission – 2 year/unlimited miles

\_\_\_\_\_

G. Steer Axle – 3 year/unlimited miles

\_\_\_\_\_

Bidder's Initials \_\_\_\_\_

2. Body	Yes	No
A. Minimum 24 month complete body warranty covering parts and labor shall take effect on the body contract date.	_____	_____

**Accessories**

1. Fire extinguisher and triangles.	_____	_____
2. Front and rear mud flaps with anti-sale brackets.	_____	_____
3. Side mounted ladder for hopper access with fall protection availability.	_____	_____
4. Removable winter weather front covering grille.	_____	_____

Bidder's Initials \_\_\_\_\_



PROPOSAL

TWO (2) AUTOMATED SIDE LOAD REFUSE TRUCKS

SOLID WASTE/RECYCLING DEPARTMENT  
CITY OF DICKINSON

JANUARY 2019

To: City of Dickinson  
Dickinson, North Dakota

Ladies and Gentlemen:

We, the undersigned, agree to furnish the City of Dickinson the following: two (2) new 2019 automated side load refuse bodies mounted on a new 2019 model truck chassis conforming to the General Specifications, the Detailed Specifications, and the attached Detailed Manufacturer's Specification at the price listed below. Warranty to be included in purchase price.

MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ HORSEPOWER \_\_\_\_\_

ENGINE \_\_\_\_\_ YEAR MANUFACTURED \_\_\_\_\_

ESTIMATED DELIVERY DATE: \_\_\_\_\_

**OPTION I: Cash Purchase (F.O.B. Dickinson)**

1. Price per unit \$ \_\_\_\_\_

**2. Total Cash Price** \$ \_\_\_\_\_

FIRM: \_\_\_\_\_  
(Please print or type)

ADDRESS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

BY: \_\_\_\_\_

DATE: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_