

**CONTRACT DOCUMENTS
FOR
SANITATION VEHICLE
(Truck, Cab, Chassis and Packer Body)**



**City of Scottsbluff, Nebraska
2525 Circle Drive
Scottsbluff, Nebraska 69361**

December 2017

TABLE OF CONTENTS
Sanitation Vehicle – Truck, Cab, Chassis, Packer Body and Compactor

Advertisement for Bids	3
Information to Bidders	4
Supplementary Conditions	9
Contract Information	11
• Bid Form	12
• Specifications Truck, Cab, Chassis.....	16
• Specifications Packer Body & Compactor.....	21

**CITY OF SCOTTSBLUFF, NEBRASKA
ADVERTISEMENT FOR BIDS
LANDFILL TRUCK, CAB, & CHASSIS - SANITATION TRUCK**

Sealed bids will be received by the City of Scottsbluff, Nebraska at the office of the City Clerk, 2525 Circle Drive, Scottsbluff, NE 69361, until 10:00 a.m., (M.S.T.) January 10, 2018, for furnishing one new Sanitation Vehicle complete with truck, cab, chassis, and Packer Compactor body.

Complete contract/bidding documents are available and may be obtained from the City of Scottsbluff at the above referenced address. Bids shall be submitted in a sealed envelope addressed to the City of Scottsbluff with the name "Bid for Sanitation Vehicle" and include the date and time of bid opening.

The City reserves the right to reject any and/or all proposals, waive any informality in the proposals received and to accept the proposals it deems most beneficial to the City.

/s/Cindy Dickinson, City Clerk

INFORMATION TO BIDDERS

Bids will be received by the City of Scottsbluff, Office of the City Clerk (hereinafter called the 'OWNER'), at the City of Scottsbluff, 2525 Circle Drive, Scottsbluff, Nebraska 69361 in accordance with the advertisement for bids and then publicly opened and read aloud.

DEFINED TERMS

Terms used in these Instructions to Bidders which are defined in the Standard General Conditions of the Construction Contract have the meanings assigned to them in the General Conditions.

The term 'Bidder' means one who submits a Bid directly to OWNER, as distinct from a sub-bidder, who submits a bid to a Bidder.

The term 'Successful Bidder' means the lowest, qualified, responsible and responsive Bidder to whom OWNER (on the basis of OWNER's evaluation as hereinafter provided) makes an award.

The term 'Bidding Documents' includes the Advertisement or Invitation to Bid, instructions to Bidder, the Bid Form, and the proposed Contract Documents (including all Addenda issued prior to receipt of Bids).

COPIES OF BIDDING DOCUMENTS

Complete sets of the Bidding Documents in the number and for the deposit sum, if any, stated in the Advertisement or Invitation to Bid may be obtained from the City of Scottsbluff.

Complete sets of Bidding Documents must be used in preparing Bids; OWNER does not assume any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

OWNER in making copies of Bidding Documents available on the above terms do so only for the purpose of obtaining Bids on the Work/Supply of Equipment and do not confer a license or grant for any other use.

EXAMINATION OF CONTRACT DOCUMENTS AND SITE

It is the responsibility of each Bidder before submitting a Bid, to:

Examine the Contract Documents thoroughly,

Consider Federal, State and Local Laws and Regulations that may affect cost, progress, performance or furnishing of the Work,

Study and carefully correlate Bidder's observations with the Contract Documents, and

Notify Director of Environmental Services of all conflicts, errors or discrepancies in the Contract Documents.

The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Request for Bids, that without exception the Bid is premised upon performing and furnishing the Work (work and supply of equipment are of the same meaning throughout this document) required by the Contract Documents, and such means, methods, techniques, sequences and procedures as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing for the Work.

Reference is made to the Supplementary Conditions for identification of:

Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders on possible changes in the Contract Documents due to differing conditions.

INTERPRETATIONS AND ADDENDA

All questions about the meaning or intent of the Contract Documents are to be directed to the Director of Environmental Services. Interpretations or clarifications considered necessary by Director of Environmental Services in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Director of Environmental Services as having received the Bidding Documents. Questions received less than ten (10) days prior to the date for opening of Bids may not be binding. Oral and other interpretations or clarifications will be without legal effect.

Addenda may also be issued to modify the Bidding Documents as deemed advisable by OWNER.

SUBMISSION OF BIDS

Bids shall be submitted at the time and place indicated in the Advertisement or Invitation to Bid and shall be enclosed in an opaque sealed envelope, marked with the Project title and name and address of the Bidder and accompanied by the Bid security and other required documents. If the Bid is sent through the mail or other delivery system, the sealed envelope shall be enclosed in a separate envelope with the notation "BID ENCLOSED" on the face of the envelope.

BIDS TO REMAIN SUBJECT TO ACCEPTANCE

All bids will remain subject to acceptance for sixty (60) days after the day of the Bid opening, but OWNER may, in its sole discretion, release any Bid and return the Bid security prior to that date.

BID FORM

The Bid Form is included with the Bidding Documents; additional copies may be obtained from the City or of Scottsbluff.

All blanks on the Bid Form must be completed in ink or typed.

Bids by corporations must be executed in the corporate name by the president or vice-president (or other corporate officer accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.

Bids by partnerships must be executed in the partnership name and signed by a partner, whose title must appear under the signature and the official address of the partnership must be shown below the signature.

All names must be typed or printed below the signature.

The Bid shall contain an acknowledgment of receipt of all Addenda (the numbers of which must be filled in on the Bid Form).

The address and telephone number for communication regarding the Bid must be shown.

QUALIFICATIONS OF BIDDERS

Dealer furnishing the complete vehicle as stated herein must be an authorized franchise dealer and full service center licensed for the type of truck to be furnished. Dealer shall be located within a fifty mile radius of Gering, Nebraska.

Equipment suppliers shall have a minimum of two years as a factory authorized dealer/distributor and service center stocking parts and providing service.

CONTRACT TIME

The number of days within which, or the dates by which, the Work is to be completed is set forth in the Bid Form and Agreement.

LIQUIDATED DAMAGES

Provisions for liquidated damages, if any, are set forth in the Agreement.

SUBSTITUTE OR 'OR-EQUAL' ITEMS

The Contract, if awarded, will be on the basis of materials and equipment described in the Specifications without consideration of possible substitute or 'no-equal' items. Whenever it is indicated in the Specifications that a substitute or 'or-equal' item of material or equipment may be furnished or used by CONTRACTOR if acceptable to Engineer, application for such acceptance will not be considered by Engineer until after the Effective Date of the Agreement. The procedure for submission of any such application by CONTRACTOR and consideration by Engineer is set forth herein and may be supplemented in the General Requirements.

SUBCONTRACTORS, SUPPLIERS AND OTHERS

No CONTRACTOR shall be required to employ any Subcontractor, Supplier, other person or organization against whom CONTRACTOR has reasonable objection.

NOTIFICATION AND WITHDRAWAL OF BIDS

Bids may be modified or withdrawn by an appropriate document duly executed (in the manner that a Bid must be executed) and delivered to the place where Bids are submitted at any time prior to the opening of Bids.

OPENING OF BIDS

Bids will be opened and (unless obviously non-responsive) publically opened and read aloud. An abstract of the amounts of the base Bids and major alternates (if any) will be made available to Bidders after the opening of Bids.

AWARD OF CONTRACT

OWNER reserves the right to reject any and all Bids, to waive any and all informalities not involving price, time or changes in Work and to negotiate contract terms with the Successful Bidder, and the right to disregard all nonconforming, non-responsive, unbalanced or conditional Bids. OWNER also reserves the right to reject the Bid of any Bidder if OWNER believes that it would not be in the best interest of the City and/or Project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or if doubtful financial ability or fails to meet any other pertinent standard or criteria established by OWNER. Discrepancies in the multiplication of units of Work and unit price will be resolved in favor of the written unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

In evaluating Bids, OWNER will consider the qualifications of the Bidders, whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.

OWNER may consider the qualifications and experience of Subcontractors, Suppliers, and other persons and organizations proposed for those portions of the Work as to which the identity of Subcontractors, Suppliers, and other persons and organizations must be submitted as provided in the Supplementary Conditions. OWNER also may consider the operating costs, maintenance requirements, performance data and guarantees of major items of materials and equipment proposed for incorporation in the Work when such data is required to be submitted prior to the Notice of Award.

OWNER may conduct such investigations as OWNER deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualifications and financial ability of Bidders, proposed Subcontractors, Suppliers and other persons and organizations to perform and furnish the Work/Equipment in accordance with the Contract Documents to OWNER's satisfaction within the prescribed time.

If the contract is to be awarded, it will be awarded to the Bidder whose evaluation by OWNER indicates to OWNER that the award will be in the best interest of the Project. The right is reserved in the interest of the City of Gering to reject any or all Bids and to waive any informality in the Bids received.

If the contract is to be awarded, OWNER will give the Successful Bidder a Notice of Award within sixty (60) days after the day of the Bid opening.

SIGNING OF AGREEMENT

When OWNER gives a Notice of Award to the Successful Bidder, it will be accompanied by the required number of unsigned counterparts of the Agreement with all other written Contract Documents attached. Within fifteen (15) days thereafter, CONTRACTOR shall sign and deliver the required number of counterparts of the Agreement and attached documents to OWNER with the required Bonds. Within ten (10) days thereafter OWNER shall deliver one (1) fully signed counterpart to CONTRACTOR.

SUPPLEMENTARY CONDITIONS

GENERAL

The General Conditions included herein are modified as follows:

ARTICLE 4 - PAYMENTS TO CONTRACTOR AND COMPLETION

The City will make payment within thirty (30) days of receipt and approval of equipment.

ARTICLE 5 - BOND AND INSURANCE

It is the sole responsibility of the Subcontractors, Suppliers, and other persons and organizations to provide full insurance on all equipment described herein while vehicle is in their possession until delivery and final acceptance by the City's, Director of Environmental Services.

CONTRACTORS RESPONSIBILITY & FURNISHED ITEMS

Truck Chassis:

The City will require that the equipment be furnished within the following time schedule:

The bidder shall be required to deliver the vehicle within ninety (90) calendar days of the date of the Notice of Award. If the bidder cannot meet this schedule, the bidder shall so note on the Bid/Quotation Form.

Company providing chassis will be responsible for delivering chassis to awarded Packer Body company. Company providing chassis is responsible for notifying City of Gering when chassis is delivered to Packer Body Company.

If the vehicle is not delivered on or before the date as stated herein for completion, or as may be extended by the City, the Bidder/Supplier shall pay the Owner liquidated damages in the amount of \$100.00 per day for each and every consecutive calendar day that the equipment has not been delivered/incomplete after the date set for completion or the date noted by the Bidder on the Bid/Quotation Form in the event the City deems this necessary.

Packer Body:

The City will require that the equipment be furnished within the following time schedule:

The bidder shall be required to deliver the Packer body within forty (40) calendar days of the date of the delivery of the chassis to the Packer body company. If the bidder cannot meet this schedule he shall so note on the Bid/Quotation Form.

The completed equipment, truck, chassis and Packer body shall be delivered to the City of Scottsbluff- Environmental Services located at 609 E. 2nd Street, Scottsbluff, NE 69361.

If the Packer body is not delivered on or before the date fixed for completion, or as may be

extended by the City, the contractor shall pay the OWNER liquidated damages in the amount of \$100.00 per day for each every consecutive calendar day that the equipment has not been delivered/incomplete after the date set for completion or the date noted by the Bidder on the Bid/Quotation Form in the event the City deems this necessary.

DELIVERY AND MANUFACTURER WARRANTY

Chassis and Packer body manufacturers shall each provide two hours of instruction at the City of Scottsbluff- Environmental Services located at 609 E. 2nd Street, Scottsbluff, NE 69361.

Suppliers shall include a minimum of two hours operational and maintenance instruction to be performed upon delivery of the complete unit. The supplier shall notify the City in advance for scheduling the introductory operations. Two copies of operational manuals and parts books shall be furnished with the equipment upon final delivery.

A copy of the manufacturer warranty and brief summary shall be provided with all equipment at the time of delivery. The Truck warranty shall be a minimum of 24 months bumper to bumper and the Packer Body a minimum of 12 months.

POINTS OF CONTACT

City of Scottsbluff 2525 Circle Drive Scottsbluff, NE 69361	Anthony Harris, Director of Environmental Services, (308) 630-0879 Wayne Lund, Lead Maintenance Mechanic, (308) 630-6268
--	---

CONTRACT INFORMATION

BID FORM

1. **PROJECT:** Bidding documents for a “New Sanitation Truck including, Cab, Chassis, Packer Body and Compactor for the City of Scottsbluff, Nebraska.

2. **THIS BID IS SUBMITTED TO:** City of Scottsbluff
 2525 Circle Drive
 Scottsbluff, Nebraska 69361
 Telephone: (308) 630-6221
 Fax: (308) 630-6294

3. The undersigned **BIDDER** proposes and agrees, if this Bid is accepted, to enter into an agreement with **OWNER**, in the form included in the Contract Documents, to supply a new Sanitation Truck as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid, and in accordance with the other terms and conditions of the Contract Documents.

4. **BIDDER** accepts all of the terms and conditions of the Advertisement or Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for forty-five (45) days after the day of the Bid opening. **BIDDER** shall sign and submit the Agreement with the Bonds (if applicable) and other documents required by the Bidding Requirements within fifteen (15) days after the date of **OWNER**'s Notice of Award.

5. In submitting this Bid, **BIDDER** represents, as more fully set forth in the Agreement, that:

6. **BIDDER** has examined copies of all the Bidding Documents and or the following Addenda
(receipt of all which is hereby acknowledged):

ADDENDUM NUMBER(S)	DATED

7. **BIDDER** is familiarized with the nature and extent of the Contract Documents. and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance or furnishing of the work.

8. **BIDDER** has given **ENGINEER** written notice of all conflicts, errors or discrepancies that it has discovered in the Contract Documents and the written resolution thereof by **ENGINEER** is acceptable to **BIDDER**.

9. This bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation; BIDDER has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain from itself any advantage over any other Bidder or over OWNER.

10. Other representation required by Laws and Regulations.

11. BIDDER will supply the equipment as set forth in the Contract Documents for the following prices.

12. BIDDER agrees that the completion of work will be as follows:

The bidder shall be required to deliver the vehicle within ninety (90) calendar days of the date of the Notice of Award. If the bidder cannot meet this schedule, the bidder shall so note on the Bid/Quotation Form.

If other completion dates are proposed, please list as an exception following:

List – other completion/delivery date

13. If no exception is taken to the specified completion, the OWNER and CONTRACTOR agree that as liquidated damages for delay (but not as penalty) CONTRACTOR shall pay OWNER One Hundred Dollars (\$100.00) per day for each day that expires after the time specified until the work is complete.

14. The terms used in this Bid which are defined in the General Conditions of the Construction Contract included as part of the Contract Documents have the meanings assigned to them in the General Conditions.

**BID FORM
TRUCK, CAB & CHASSIS
SANITATION VEHICLE**

The bidder proposes and agrees, if the bid is accepted, to furnish equipment meeting or exceeding the minimum specifications specified for the contract price and within the time indicated in this bid. This bid will remain subject to acceptance for thirty (30) days after the date of bid opening.

Bidder shall supply all shop drawings of truck, cab and chassis.

Bidder shall use and complete all items on the bid forms.

A copy of the manufacturer's warranty shall be attached to the bid forms (minimum 2 years).

**TRUCK, CAB & CHASSIS
SANITATION VEHICLE**

Includes furnishing, servicing, and delivering to Packer Body Company operation and maintenance instruction and all other items necessary to complete the equipment transaction; except those items specifically listed hereafter for the following Lump Sum Price:

1 each at:

_____ \$ _____
(Words - Lump Sum Price) (Figures L.S.)

List: Make and Model: _____

Delivery if other than 90 calendar days: (specify): _____
Total Calendar Days

List: Factory Authorized Parts & Service Center

_____ Address _____ Years at Present Location

CONTACTS:

Parts: _____ Service: _____

Telephone: _____ Telephone: _____

PACKER BODY & COMPACTOR

The bidder proposes and agrees, if the bid is accepted, to furnish equipment meeting or exceeding the minimum specifications specified for the contract price and within the time indicated in this bid – Champion Square Body or equal. This bid will remain subject to acceptance for thirty (30) days after the date of bid opening.

A copy of the manufacturer’s warranty shall be attached to the bid forms.

Packer Body & Compactor

1 each at:

_____ \$ _____
(Words - Lump Sum Price) (Figures L.S)

Manufacturer: _____

Model: _____

DELIVERY (40 calendar days specified): _____
After receipt of truck (cab and chassis) Total Calendar Days

**SPECIFICATION
TRUCK, CAB, CHASSIS, & DUMP BODY**

GENERAL

The truck, cab, and chassis shall be capable of carrying a minimum nine (9) ton payload and shall be new, with twin screw type tandem axle and shall be modified by the bidder to be compatible with the Packer body and compactor unit.

Details/Specified
Unit Proposed
By Bidder

TRUCK, CAB MINIMUM SPECIFICATIONS

MAKE: _____

MODEL: _____

MINIMUM SPECIFICATIONS

1. **OPERATING WEIGHT:**

G.V.W. minimum of 60,000 pounds _____

Axle ratings:

Front axle minimum 16,000 pounds _____

Rear axle 40,000 pounds (twin screw tandem) _____
Single speed with ratio compatible with engine
and transmissions

Equipped with manual differential lock from cab _____

2. **SUSPENSIONS:**

Heavy duty front shock absorbers _____

Heavy duty rear shock absorbers 40,000# or equivalent _____

Spring rating 20,000 pounds flat leaf front _____

Spring rating 40,000 pounds rear _____

Oil lubricated front wheel and rear wheel hubs _____

Fore./Aft/Transverse/Control Rods _____

Axle Related Items:

- 56 inch axle spacing _____
- Greaseable drag link and tie rods _____

3. **BRAKES:**

- ABS with diagnostics without traction enhancement _____
- Air brakes front and rear _____
- Bendix, AD-9, air dryer with heater mounted under cab _____
- All brake linings non-asbestos _____
- Equipped with air parking brake _____
- Manual drain cocks on air tanks _____

4. **TRANSMISSION:**

- Allison automatic transmission 6 speed with auto neutral option & PTO provision _____
- Transmission oil cooler _____
- Equipped with transmission filter _____

POWER TRAIN:

5. **ENGINE:**

- CUM ISC-350 350 HP @ 2000 RPM, 2200 GOV, 1000 LB/FT @ 1400 RPM (or equal) _____
- Engine mounted oil check and fill _____
- DR 12V 160 AMP Quadra mount Pad Alternator with Remote battery volt sense _____
- Full flow oil filter _____
- Electronic engine integral shutdown protection system _____

6. **ENGINE EQUIPMENT:**

- DELCO 12V 38MT HD starter with integrated magnetic switch _____
- Air cleaner dry type _____
- Coolant filter/conditioner, fleet guard spin-on type _____
- Coolant recovery system _____
- Cooling system capacity heavy duty radiator _____
- Heavy duty radiator for hydraulic pump _____
- Engine block heater, 1,000 watt 115 volt _____
- Exhaust system single vertical exhaust system with muffler _____
- Clutch fan _____
- Fuel water separator filter _____
- Oil cooler, engine mounted disposable oil filter _____

- 7. **STEERING:**
 - Power steering will be furnished _____

- 8. **TIRE/WHEELS:**
 - Front tires 16 ply radials tubeless w/all season tread _____
 - Rear tires 16 ply radials tubeless extra waste
handler lugs style _____
 - Wheels - 10 hole steel disc – hub ported style _____
 - One spare tire 16 ply & wheel as specified above for
rear tires _____

- 9. **FUEL TANK:**
 - Steel, 70 gallon (minimum) 25 inch diameter type tank _____

- 10. **FRAME:**
 - Two (2) front and rear mounted tow hooks
bolted to frame. _____

- 11. **ELECTRICAL SYSTEM:**
 - Two (2) batteries minimum of 1500 cold cranking Amps _____
 - PTO mode brake override – service brake applied
or park brake not applied _____
 - PTO mode cancel vehicle speed – 5 MPH _____

- 12. **CAB EQUIPMENT**
 - Standard conventional with tilting hood and fenders _____
 - Two (2) 7" x 16" side mounted with round spotting
mirrors, with extra left hand spot mirror - 8" and two
extra spot mirror on right side. _____
 - High back air ride seat on driver's side with arm rest
on both sides _____
 - High back air ride seat on passenger side with arm rest
on both sides _____
 - Seat belts retractable to lap and shoulder, seats _____
 - Heavy duty vinyl seats _____
 - Rubber floor mats/additional floor mats _____
 - Sun visors _____
 - Assistive handle for easy access to cab _____
 - Windshield wipers intermittent speed equipped
with windshield washer _____
 - Interior dome lamp w/integral 3 way activated
Switch by driver's door _____
 - 12 volt dash mounted electrical outlet _____
 - Single air horn, single electric horn _____
 - Keyed lockable doors _____

- Cab constructed of steel or aluminum or combination _____
- Cab framing reinforced floor _____
- Cab mounts two point hinges _____
- Bumper full width wrap around _____
- Headlights equipped with turn signal lights front _____
and back and switches, warning lights with buzzers _____
- Integral stop/tail/backup lights _____
- Steering wheel size approximate 18" _____
- Mud flaps, front and rear duals _____
- Colored flat screen monitor shall be mounted in the _____
cab and be fully adjustable with split screen option so _____
all camera views can be displayed at one time and _____
automatically switch to full screen back up camera _____
when unit is shifted to reverse _____

13. **INSTRUMENT PANEL AND GAUGES:**

- Circuit protectors, self-resetting circuit breakers _____
- Electronic engine hour meter _____
- Electronic tachometer _____
- Dual air pressure gauge with buzzer _____
- Engine coolant temperature gauge _____
- Transmission temperature gauge _____
- Engine oil pressure gauge _____
- Fuel gauge _____
- Speedometer _____
- Voltmeter _____
- Instrument panel, adjustable lighting _____
- Equipped with clearance lights and ID lights _____

14. **CAMERAS:**

- Two (2) color cameras will be provided: _____
1st mounted on the tailgate below the strobe light _____
2nd mounted in the hopper area _____
- The cameras shall be safety vision _____
- Protective cases shall be provided for the cameras _____
- All cameras shall have shields to minimize sun glare _____

15. **OPERATOR ENVIRONMENT:**

- Heavy duty heater and defroster _____
- AM/FM/ Stereo Radio with front AUX port _____
- Air conditioning/heavy duty blower _____

16. **PAINTING:**

- Minimum one coat of primer and finish coat of white _____
in color _____
- Frame standard black chassis paint _____

Front and rear wheels paint - vendor white _____

17. **MISCELLANEOUS:**

Back up alarm _____

Triangle reflectors _____

Two (2) complete set of parts, service and operator's manuals _____

Five pound fire extinguisher mounted in cab _____

First aid kit _____

18. **WARRANTY:**

List manufacturers standard warranty _____

Bidder shall attach copy of warranty _____

Minimum two year basic vehicle warranty _____

Two year unlimited warranty on engine _____

Two year unlimited warranty on drive train components, transmission, drive axles (differential assemblies, axle shaft and axle housings), steering axles (beam, spindles, kingpins, bearings), and steering arms _____

Two year unlimited cab structure and sheet metal (conventional hoods) _____

Five year unlimited warranty cab corrosion _____

Five year unlimited warranty frame rails and cross members _____

List optional warranties and cost _____

Repairs must be made in the first two years with unlimited warranty and completed in no more than two (2) calendar days at no charge to customer _____

Towing included for the 1st two (2) years _____

**SPECIFICATIONS
PACKER BODY & COMPACTOR**

It is the intent of this specification to describe a hydraulically actuated refuse Packer body with the following minimum specifications considered necessary to perform the work assigned and will be the product of a manufacturer actively engaged in the production of refuse collection equipment and will embody their latest improvements in design and construction. The body’s construction and specifications shall be in compliance with the applicable standards as promulgated by the American National Standards Institute (ANSI Z245.1)

GENERAL

The compactor body is an automated container loading and dumping device and shall meet Square Box Specifications or equal and will have a minimum capacity of 33 cubic yards and be capable of compacting refuse and ejecting refuse from the body in a stationary manner. The receiving hopper area will be approximately 4 cubic yards and will accommodate up to and including 95 gallon cart style containers without damage.

MINIMUM SPECIFICATIONS

1. **BODY CONSTRUCTION:**

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Body Capacity – 33 CY including rear tailgate and hopper capacity <input type="checkbox"/> Hopper – at least 4 CY usable capacity with Hopper sides of a flat design with horizontal channel reinforcing. <input type="checkbox"/> Hopper floor to be flat full width and shall not have inboard guide rails or a trough. <input type="checkbox"/> Tailgate will constructed with 10 Gauge 50, 000 psi Yield Strength Steel <input type="checkbox"/> Compacter plate shall be hydraulically activated <input type="checkbox"/> The compaction plate shall be constructed of ¼” Thick – 50,000 psi strength steel reinforced with vertical and horizontal boxed sections <input type="checkbox"/> The body is to be equipped with a hinge access door located on the side opposite the container loader. <input type="checkbox"/> Body shall have a rear under ride guard <input type="checkbox"/> Body shall have tailgate support props <input type="checkbox"/> Rear mud flaps and rear fenders <input type="checkbox"/> Remote lubrication system accessible from ground level <input type="checkbox"/> Hand rails and steps or ladder for easy access included | <p>Details/Specified
Unit Proposed
<u>by Bidder</u></p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
|--|---|

2. **TAILGATE:**

- | | |
|--|---------------------------|
| <ul style="list-style-type: none"> <input type="checkbox"/> Tailgate should be top-hinged and hydraulically raised/ lowered/locked with two hydraulic cylinders. <input type="checkbox"/> The tailgate shall be operated from a control switch | <p>_____</p> <p>_____</p> |
|--|---------------------------|

located within easy reach of the operator inside the cab.

- The lower inside perimeter shall be equipped with a replaceable watertight seal. _____
- Unit will have an audible warning buzzer when the tailgate is unlocked and while being raised/lowered. _____
- Rear door locks – the rear door shall be secured by locks at two points on the lower perimeter. _____
- The locks shall be actuated by a hydraulic cylinder _____
- The rear door shall be automatically latched and unlatched in sequence with the rear door hydraulic lift cylinders. The latch hook shall be constructed of 1” thick -100,000 psi yield strength steel _____

3. **CONTAINER LOADER AND GRIPPER:**

- The container loader used in conjunction with the compaction body will provide means to extend, clamp, raise, dump and return 30 through 95 gallon cart style containers designed for automated collection _____
- The lift base shall support the lift arm, the dump arm the level pivot, the level link, the pivot link, and the reach link. The lift base shall rest atop the chassis frame rails for superior vertical distribution of loads induced into the chassis frame rails _____
- The lift arm shall consist of a fabricated structure with a structural tube to serve as support for the dump arm _____
- The dump arm shall consist of a structural tube that will support the appropriate grabber _____
- The level pivot shall be a fabricated channel _____
- The level link shall be a structural tube machined at each end for steel spherical bearings or brass bushings or similar and two (2) pins _____
- The pivot link shall be a structural tube machined on top and a spherical bearing or brass bushings or similar on the bottom end _____
- The reach link shall consist of two (2) parallel structural tubes linked mid-span _____
- Container loader shall be actuated by no less than three (3) hydraulic cylinders and shall raise the lift carriage to the dump position and return to the disengage position _____
- The container loader shall be capable of a complete cycle, which includes grip, lift, dump, lower, and un-grip in a maximum of 8 seconds _____
- The lift controls shall be self-centering type, returning to the neutral position when released. These controls shall have direct oil flow via a three (3) section “on-command” valve _____

- The packer button controls shall be electrical push button located in the cab convenient to the operator. Separate push buttons shall be provided for “Pack” and “Retract” to provide complete packer panel movement control in either direction. Pushing the “Pack” button shall automatically extend and retract the packer panel for a complete cycle. _____
- The track reach (extend/retract) shall be actuated by a hydraulic cylinder with hardened and chrome plate rods _____
- The container loader shall be capable of grasping container located 6” from the 96” wide envelope of the truck (containers placed directly next to the truck can be collected) _____
- The container loader shall be capable of gripping and dumping a container that is positioned a minimum of 48” above the trucks ground level _____
- The container loader shall be capable of reaching a minimum of 84” from the side of the body to the center of a 95 gallon cart container _____
- The container loader shall be capable of gripping containers placed within a foot of one side of the unit _____
- The container loader shall combine the lift arm raise and container dump function into one liver for ease of operation _____
- The container loader shall be within the 96” road limit in the travel position with the grippers in the full lower position _____
- The operator must have unrestricted view of the packer plate from inside the cab _____
- The container loader must extend in a linear horizontal motion _____
- No portion of the container loader shall have less than 13” of ground clearance in the stowed position _____
- When in the dump position, the highest point on a 95 gallon cart container shall not exceed 120” above the truck _____
- The container loader shall incorporate an inter-lock to prohibit the possibility of dumping the contents of the container outside the confinement of the hopper _____
- The container dump angle shall be a minimum of 45 degrees to ensure complete dumping and transfer of the containers contents into the hopper _____
- Hydraulic reservoir behind cab not acceptable _____
- The container griper shall incorporate an adjustable hydraulic circuit limiting the radial force applied to the container. _____

- The standard gripper shall be capable of handling 30 through 95 gallon containers designed for automated collection _____

4. **PACKING MECHANISM:**

- The Packer plate shall be actuated by two hydraulic cylinders mounted in the horizontal plane. _____
- The cylinder shall be connected to the packer plate by trunion mountings _____
- The packer plate shall be capable of traversing the entire length of the body and shall be capable of exerting a minimum of 2000 psi of force across the face of the packer plate _____
- The packing mechanism shall operate such that the pack cycle terminates automatically prior to the Packer plate contacting the rear door _____
- Packer plate shall be mounted on replaceable steel wear strips _____
- Packer lock-out - the packing mechanism shall be equipped with the capability to prevent containers from being dumped behind the Packer plate _____
- Packing mechanism cylinders shall be a three stage, 5 1/2 x 4 1/2 x 3 1/2 bore, double acting and have chrome plated shafts. They are mounted above the floor to prevent damage and are attached by 2" diameter pivot pins. _____

5. **HYDRAULIC SYSTEM:**

- The unit shall be equipped with a transmission mounted pump. Live power _____
- Low RPM displacement design with a priority flow control device and dry-valve to control the pump _____
- It will deliver a minimum of 16 GPM, 750 engine RPM to operate the lift at engine idle _____
- The hydraulic pump should be adequate enough to allow shift to neutral and accelerate _____
- Compaction cycle control shall be push button control from inside the truck cab with an electric-over-air operated spool valve _____
- Oil reservoir shall be 1 1/2 times the capacity of the hydraulic system. Vent will be metal cap _____
- NOT FILTER TYPE**
- Shall be mounted on the side opposite the container loader device _____
- An oil sight level gauge to permit visual determination of the oil in the reservoir _____
- Hydraulic system shall be equipped with a hydraulic _____

- oil filter on the return line inside on the top of the tank with a 100 wire mesh suction strainer
- There will be a high pressure in-line filter of 10 micron capability in the pressure line ahead of the main control valve. The filter will be of the replaceable element type.
- Hydraulic system will be equipped with a pressure detection device to ensure a maximum of 2500 psi operating pressure
- The hydraulic system shall operate at a pressure of 1800 psi and shall be capable of operating at a pressure of 2000 psi

6. **PAINING:**

- Two (2) coats of rust inhibiting primer are to be applied prior to the finish coat white in color to match cab
- Body shall be properly prepared free from weld slag, greases and oils

7. **MISCELLANEOUS:**

- Should be equipped with ladder on Packer body
- The compaction body shall have all necessary warning decals, lights and reflectors to meet State and Federal highway standards
- Additional working lighting should be provided Equipped with front and rear strobe lights on body that has separate switch in cab
- Equipped with spot light mounted on back of body hooked to backup lights
- Two complete sets of parts, service and operation manuals

8. **WARRANTY:**

- List manufacturer's standard warranty
- Bidder shall attach copy of warranty
- One year unlimited warranty on all parts
- One year unlimited warranty on all labor
- One year unlimited warranty on all construction
- Repairs must be made in the first year with unlimited warranty and completed in no more than five (5) calendar days
- If repairs are made by the City in the first year, the City will be reimbursed for labor and parts

9. **CONTRACT NEGOTIATIONS:**

The City of Scottsbluff reserves the right to negotiate any and all items in the formal

contract as they may relate to the Scope of Services, etc. found in the Request for Bids.