

**CITY OF LITTLE ROCK FLEET SERVICES**  
**3314 J E DAVIS DRIVE**  
**LITTLE ROCK, AR 72209**

**SPECIFICATION #: (F72-12-1) 30CY AUTOMATED SIDE LOADING REFUSE TRUCK**

**1.0 GENERAL -**

- 1.1 These specifications describe a tandem axle, diesel powered; *Cab over chassis* equipped with a 30 cubic yard automated side loading refuse body. The decision on the number of trucks purchased will be made after the bid opens.
- 1.1 Bids are to be submitted on the attached forms or the bid will be rejected as incomplete.
- 1.2 All bids must be submitted with descriptive literature of the chassis and body being bid or **the bid will be rejected as incomplete.**
- 1.3 Each apparent low bid will be reviewed line by line prior to recommendation for award.
- 1.4 A team of up to four City of Little Rock Employees will visit the body manufacturer's plant for a final inspection and acceptance prior to delivery. The cost for the review team visits to the manufacturer's plant shall be included in the bid price. All traveling shall be done during normal business hours utilizing a major airline from Little Rock Regional Airport. This cost will included all meals, Hotels and Travel.
- 1.5 The City of Little Rock reserves the right to add or delete the number of units to be purchased from this bid for a period of one (1) year after bid opening if it is agreeable with both the City and the awarded bidder.

**2.0 MANUFACTURER/MODEL -**

- 2.1 Items bid must be new and of the latest, standard production model offered for commercial trade.

**3.0 SPECIFICATION VARIANCES -**

- 3.1 All specifications written are to **minimums**, unless otherwise noted.
- 3.2 If any of the equipment bid varies from the specifications, such variation(s) must be listed in writing and attached as part of the bid proposal. **No Exceptions!**
- 3.3 The City of Little Rock reserves the right to waive minor variation(s) if in the opinion of the Fleet Services and the Public Works Solid Waste Departments that those items will not interfere with the City's standard maintenance and operation of the bid unit.

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### 4.0 CHASSIS SPECIFICATIONS -

#### 4.1 ENGINE:

- a. \_\_\_ In-line Six Cylinder Diesel 345HP @2100 RPM; 2500GOV, 1250LB/FT @ 1300RPM (The Engine must be approved by body manufacture. A letter from the body company stating the engine can perform the stated operation will be included in the bid.)
- b. \_\_\_ Electronic engine controls
- c. \_\_\_ Factory installed fuel/water separator.
- d. \_\_\_ OEM engine shutdown system for low engine oil pressure, low coolant level, or high coolant temperature.
- e. \_\_\_ Set to de-rate first before shutdown

#### 4.2 TRANSMISSION (Designed for Refuse Truck Applications):

- a. \_\_\_ Allison 4500RDS with electronic push-button console (5-speed minimum)
- b. \_\_\_ Allison approved oil cooler
- c. \_\_\_ Fluid: Allison Transynd

#### 4.3 SAFETY INTERLOCK:

- a. \_\_\_ When the PTO switch is in the "on" position and the container lift arm is moved from its stowed position, the transmission shall automatically shift into neutral. Transmission shall engage back into gear when the arm is placed back into the stowed position. ( Driver can not override this system)

#### 4.4 DRIVETRAIN:

- a. \_\_\_ Heavy-duty drive shafts and u-joints as recommended by chassis manufacturer for refuse applications.
- b. \_\_\_ All universal joints shall grease fittings installed.
- c. \_\_\_ Universal joints will be half round design

#### 4.5 STEERING:

- a. \_\_\_ Integral hydraulic power steering
- b. \_\_\_ Left hand driving station only

#### 4.6 BRAKES:

- a. \_\_\_ Air brakes with minimum of a 15.5 cfm compressor
- b. \_\_\_ Bendix AD-9 air dryer
- c. \_\_\_ Rear axle mounted two springs actuated double diaphragm-parking brakes (both axles).
- d. \_\_\_ Meritor 16.5" x 6" Q+ S-cam front brakes with outboard drums
- e. \_\_\_ Meritor 16.5" x 7" Q+ S-cam rear brakes with outboard drums
- f. \_\_\_ ABS without traction control enhancement
- g. \_\_\_ Reinforced nylon, Fabric Braid and Wire braid chassis air lines

#### 4.7 FRONT AXLE AND SUSPENSION:

- a. \_\_\_ 20,000 lb. Leaf spring suspension
- b. \_\_\_ 20,000 lb. capacity axle. Rating bid must meet all body manufacturers'

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chassis requirements.

- c. \_\_\_ Heavy-duty double acting shock absorbers
- d. \_\_\_ Front axle shall be designed to allow maximum wheel cut angle.
- e. \_\_\_ Mud flaps without labels or logos
- f. \_\_\_ Maximum turning radius to the left will be 77"

### **4.8 REAR AXLES AND SUSPENSION:**

- a. \_\_\_ Acceptable suspensions are as follows Hendrickson RT or HMX beam, TufTrac, Camelback.
- b. \_\_\_ Axles and suspension shall have a 46,000 lb. minimum rating. Rating bid must meet all body manufacturers' chassis requirements.
- c. \_\_\_ Tandem drive axles
- d. \_\_\_ Rear end ratio to provide 65 - 67 mph @ engine governed RPM.
- e. \_\_\_ Mud flaps

### **4.9 GROSS VEHICLE WEIGHT RATING:**

- a. \_\_\_ 62,000 pounds minimum.
- b. \_\_\_ GVW rating must meet all body manufacturer requirements.

### **4.10 WHEELS:**

- a. \_\_\_ Front: Two (2) - 22.5" x 9" 10 hole hub piloted steel disc wheels painted white
- b. \_\_\_ Rear: Eight (8) - 22.5" x 8.25" 10 hole hub piloted steel disc wheels painted white

### **4.11 TIRES:**

- a. \_\_\_ Front - Goodyear G291 (or equivalent) 425/65R22.5 18 ply tubeless steel belted radials
- b. \_\_\_ Rear - Goodyear G244 (or equivalent) 11R22.5 16 Ply tubeless steel belted radials

### **4.12 ELECTRICAL SYSTEM:**

- a. \_\_\_ 12 volt
- b. \_\_\_ 130 amp alternator minimum
- c. \_\_\_ Three (3) or four (4) 12-volt maintenance-free batteries with a combined 1000CCA w/battery disconnect.
- d. \_\_\_ Dash mounted gauges: voltmeter, engine oil pressure, engine coolant temperature, fuel level, tachometer, and speedometer w/odometer.
- e. \_\_\_ AM/FM radio
- f. \_\_\_ Dome light
- g. \_\_\_ Horn
- h. \_\_\_ Intermittent windshield wipers with washer
- i. \_\_\_ Lighting to comply with all State and Federal regulations
- j. \_\_\_ 80 dba backup alarm

### **4.13 CAB (Left Hand Drive Standard Cab):**

- a. \_\_\_ cab over Cab
- b. \_\_\_ Non-skid steps with grab handles on each side of cab.
- c. \_\_\_ Standard automotive type doors with roll down or sliding windows.
- d. \_\_\_ Air ride drivers seat with a durable heavy-grade covering.

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- e. \_\_\_ Fixed passengers seat with a durable heavy-grade covering.
- f. \_\_\_ Left hand driving station
- g. \_\_\_ All seating shall have 3-point safety belts.
- h. \_\_\_ Factory installed air conditioning,
- i. \_\_\_ Heater, defroster and fresh air vents
- j. \_\_\_ Dual sun visors
- k. \_\_\_ Dual, west coast mirrors with 7.5" spot mirrors. Mirrors shall be mounted as far forward on the cab or door.
- l. \_\_\_ Dual air horns
- m. \_\_\_ Tinted safety glass
- n. \_\_\_ One piece rear window

### 4.14 FRAME:

- a. \_\_\_ 120,000 psi steel channel frame with reinforcement
- b. \_\_\_ Minimum Section Modulus: 26.06.
- c. \_\_\_ Minimum RBM: 3,127,200 in lbs per rail
- d. \_\_\_ "CT" to be determined by body manufacturer for the correct load weight distribution on the front and rear axles. Distribution of weight shall not exceed payload limits.
- e. \_\_\_ Heavy duty steel front bumper
- f. \_\_\_ Front and Rear tow hook(s) or pin(s) shall be securely mounted to the frame capable of towing the vehicle.

### 4.15 FUEL TANK:

- a. \_\_\_ Seventy Five (75) gallon capacity Min.
- b. \_\_\_ Tank must have at least 16" of ground clearance
- c. \_\_\_ Unit must have a full tank of fuel upon delivery

### 4.16 COLOR:

- a. \_\_\_ Standard trim
- b. \_\_\_ For paint color see section #5.13
- c. \_\_\_ Interior color to be chosen at time of bid award.

### 4.17 EXHAUST:

- a. \_\_\_ Vertical exhaust stack with rain turn out
- b. \_\_\_ The Diesel Particulate filter can be Horizontal or vertical as long as it does not low the ground clearance and does not interfere with the truck operations
- c. \_\_\_ Safety guard shall cover exhaust pipe to prevent injury.
- d. \_\_\_ All exhaust will be compliant with year it was produced. Any problems with compliance will be the responsibility of the bidder.

### 4.18 COOLING SYSTEM:

- a. \_\_\_ System shall be designed for severe service applications.
- b. \_\_\_ Low silicate permanent type anti-freeze mixed at a 50/50 solution shall be protected to -34°F below zero.
- c. \_\_\_ Radiator shall have skid guard protection if extending lower than the front bumper. (Not required if it does not extend below the bumper) ( A two radiator system will be acceptable as long as it does not interfere with the drivers line

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of site from the drivers side seat out of the rear window for arm operations.)

### 5.0 BODY SPECIFICATIONS –

#### 5.1 CAPACITY

- a.\_\_\_\_ The packer body shall have a capacity, excluding the receiving hopper, of not less than: 30 yd<sup>3</sup>
- b.\_\_\_\_ The hopper shall have a minimum capacity of 3 cubic yards.
- c.\_\_\_\_ The structural integrity of the body shall allow high density loading of up to 700 pounds per cubic yard of normal refuse.

#### 5.2 BODY DIMENSIONS

- a.\_\_\_\_ The maximum inside body width shall be 91”.
- b.\_\_\_\_ The maximum outside body width shall be 96”.
- c.\_\_\_\_ The maximum inside body height shall be: 30 yd<sup>3</sup> = 91”
- d.\_\_\_\_ The maximum outside body height above chassis shall be: 30 yd<sup>3</sup> = 109”
- e.\_\_\_\_ The maximum overall length of the body, tailgate and loader shall not exceed the following: 30 yd<sup>3</sup> Capacity 279” Length
- f.\_\_\_\_ The maximum bottom hopper width shall be 72”.
- g.\_\_\_\_ The maximum hopper length shall be 47”.

#### 5.3 BODY CONSTRUCTION

- a.\_\_\_\_ The body interior shall have a smooth flat floor without a trough. The sides and roof shall be smooth radius cornered construction. All materials shall be steel unless otherwise specified.
- b.\_\_\_\_ No hydraulic cylinders, valve or other hydraulic components shall come in contact with refuse packed into the body.
- c.\_\_\_\_ Body sides and roof shall be of reinforced channel construction interfacing with the 90° cast steel radius corner mainframe bolsters. Bolster shall be 6” x 1.75” x 7 ga. high tensile formed channel interfacing 90° cast steel radius channels at the major upper and lower connecting points of the mainframe.
- d.\_\_\_\_ Floor shall be reinforced with 6” x 1.75” x 7 ga. high tensile formed structural channels located so as to withstand continuous operation at maximum imposed loads without harmful deformation or excessive wear.
- e.\_\_\_\_ Body roof shall be minimum 12 ga., hi-tensile sheet fully welded to a full width 6” x 1.75” x 7 ga. high tensile formed structural channel roof cross members to contain and dissipate forces equally through the roof structure.
- f.\_\_\_\_ Body sides shall be minimum 10 ga., high tensile sheet, fully welded to the sidewall vertical bolsters.
- g.\_\_\_\_ Body floor shall be flat with radiused corners at the sidewalls. Floor shall be minimum 7 ga., 50,000 PSI minimum yield.
- h.\_\_\_\_ A 24” x 64” x .1875”, 100,000 PSI yield sheet overlay shall be welded to the body floor at the transition from the hopper floor to the body floor.
- i.\_\_\_\_ Floor longitudinals (long members) shall be 10” at 20#/ft. structural channel. Longitudinals shall provide a minimum 2.7” wide sill base.
- j.\_\_\_\_ Floor outer members shall be 1.75” x 6” x 7 ga., 40,000 PSI minimum yield formed channels. Cross members shall be supported adjacent the long members with 6” x 16” x .375” gussets to fully support the floor. Longitudinal to longitudinal spanner members shall be 1” x 3” hot rolled steel bars.

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- k.\_\_\_\_ Hopper Floor will have a heavy duty overlay package 48" into body (3/16-100,000 psi)

### 5.4 HOOPER CONSTRUCTION

- a.\_\_\_\_ Hopper shall be of flat floor and vertical sidewalls. The front of the hopper shall be a radius and free of any corners allowing operation of the lifting device from conventional left hand or right hand drive chassis. Hopper shall be designed to properly handle thirty (30) gallon through three hundred (300) gallon automated side loader containers.
- b.\_\_\_\_ Hopper longitudinal (long members) shall be an extension of the body 10" at 20#/ft. structural channels.
- c.\_\_\_\_ Hopper floor shall be minimum .5", ASTM-A36 steel specification.
- d.\_\_\_\_ Hopper side shell shall be a minimum .5" hot rolled steel plate per ASTM-A36 steel specifications.
- e.\_\_\_\_ The curb side hopper wall shall be equipped with a replaceable rubber flap. The flap shall be constructed of 3 ply cord reinforced, neoprene rubber.
- f.\_\_\_\_ Hopper Cover will be a Pneumatic hopper cover

### 5.5 PACKING MECHANISM

- a.\_\_\_\_ A hydraulically actuated packing platen shall be suspended between two (2) heavy duty, self aligning hardened steel bushings. The packing platen shall complete a pack sweep cycle, displacing a volume of at least three (3) cubic yards, in a maximum of 14-16 seconds with an empty body, and shall be capable of operating continuously so that refuse containers can be dumped with the platen in any position.
- b.\_\_\_\_ The packing platen shall be fabricated from a minimum .5" reinforced steel plate. The swinging platen shall utilize both sides of the assembly to distribute the waste equally to both the left and right sides of the body.
- c.\_\_\_\_ The packing platen and support bushings shall be capable of being greased without entering the hopper. A six (6) fitting grease manifold shall be located under the body so that it is accessible from the ground with the empty body resting on the body props. Two (2) additional grease fittings, accessible from ground level, shall be located at the side of the hopper to grease the upper and lower platen bushings.
- d.\_\_\_\_ The packing platen shall be activated by two (2) hydraulic cylinders mounted under the body and connected to the packing platen using 1.25" thick steel bars. The cylinders shall be 5" diameter bore x 1.5" rod x 43" stroke.

### 5.6 BUSTLE TAILGATE

- a.\_\_\_\_ The tailgate must be one piece; top hinged and shall open approximately 90°.
- b.\_\_\_\_ Tailgate shall be constructed of a minimum 10 ga., high tensile sheet on rear and side walls.
- c.\_\_\_\_ The tailgate shall be reinforced by a minimum 1.75" x 6" x 7 ga., 40,000 PSI

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minimum yield formed perimeter channel.

- d.\_\_\_\_ The tailgate will be secured to the body by two (2) sets of hinges at the roof line.
- e.\_\_\_\_ A heavy duty rear door removable positive one piece seal of vinyl tube gasket material will be installed the full length of the bottom and 14" up the sides of the tailgate to prevent leakage.
- f.\_\_\_\_ The tailgate shall be raised and lowered, locked and unlocked by hydraulically actuating two (2) double acting cylinders with a minimum 3" bore x 18.5" stroke x 1.12" diameter chrome plated rod. The cylinder must retract to unlock and raise the tailgate. Cylinder design shall include an orifice fitting to prevent the rapid descent of the tailgate in the event of a hydraulic failure.
- g.\_\_\_\_ Tailgate props shall be provided to be manually lowered and secured in the raised position by a positive locking device.

### 5.7 LIFTING MECHANISM

- a.\_\_\_\_ The lift arm and guide rail shall be of tube type construction fabricated from 36,000 PSI minimum yield steel. The lift, grab and dump functions shall use spherical bushings at each pivot point.
- b.\_\_\_\_ The standard lifting mechanism shall be capable of lifting round containers ranging from 30 to 300 gallons, by manually exchanging grabbers.
- c.\_\_\_\_ The lifting mechanism shall be capable of individually controlled motion for extending, grabbing, raising, dumping and returning a container from any position. Through use of a coordinator, the lifting mechanism shall have the ability to combine multiple functions into a single switch for ease of operation.
- d.\_\_\_\_ The lifting mechanism shall perform the following lift cycle functions in eight (8) seconds at idle:
  - 1. Grab the container
  - 2. Lift the container to the full dump position
  - 3. Lower the container to the full down position
  - 4. Release the grabbers from the container



- e.\_\_\_\_ The lifting capacity shall be a minimum of 1,600 pounds at any extension.
- f.\_\_\_\_ The lift shall have a minimum reach capable of a 96" reach from the side of the body to the center line of a 90 gallon container.
- g.\_\_\_\_ The lifting mechanism shall be powered by four (4) hydraulic cylinders (Reach – 1.75" bore x 71.23" stroke, Grab – 3" bore x 8" stroke, Raise – 3" bore x 16" stroke, Dump – 3" bore x 8" stroke). The cylinders shall be cushioned in both directions and have spherical bushings in the rod and base ends.
- h.\_\_\_\_ The lifting mechanism shall be within the 96" road limit in the down and slowed position with a 13" ground clearance and shall be equipped with an automatic safety lock to restrain the lift arm when not in operation.

### 5.8 BODY HOIST

- a.\_\_\_\_ The body shall be raised by two (2) 4.5" bore x 56" stroke, chrome plated

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single acting two stage telescopic cylinders. The body shall achieve a dump angle of approximately 30° and be lowered by gravity.

- b.\_\_\_\_ Cylinder design shall include an orifice fitting in the base port which will prevent the rapid descent of the body in the event of a hydraulic failure.
- c.\_\_\_\_ The hoist cylinders shall be mounted outboard of the chassis frame and trunnioned with a 2.5" solid through shaft.
- d.\_\_\_\_ Two (2) 3" structural channel body props shall be provided to hold the empty body in a partially raised position for servicing the unit. The props will have a 2" spanner channel and will be secured under the body by a positive type hook latch.

### **5.9 HYDRAULICS**

- a.\_\_\_\_ The maximum operating pressure of the system shall be 2400 PSI.
- b.\_\_\_\_ The hydraulic pump shall be a front engine, crank driven, Denison tandem vane pump with electronic over-speed control. The combined flow shall be 33 GPM @ 800 RPM. The lift pump section shall flow 16.5 GPM @ 800 RPM. The packer panel pump section shall flow 16.5 GPM @ 800 RPM. The packer panel pump shall flow up to a maximum 37 GPM @ 1800 RPM. Pump shall comply with specification 219-2076 or equal.
- c.\_\_\_\_ The lift hydraulics shall operate at a working pressure of 2200 PSI.
- d.\_\_\_\_ All hydraulic tubes will be securely clamped to prevent vibration, abrasion, and excessive noise.
- e.\_\_\_\_ All hydraulic hoses shall conform to S.A.E. standards for designed pressure.
- f.\_\_\_\_ The hydraulic oil reservoir shall have a gross capacity of 50 gallons.
- g.\_\_\_\_ The tank shall be complete with a screened fill pipe and cap, filter breather, clean out cover, oil level sight and temperature gauge, and suction line shut-off valve.
- h.\_\_\_\_ The hydraulic system shall be protected by a three (3) micron, in tank, return line filter along with a 100 mesh (140 micron) reusable oil strainer in the suction line.
- i.\_\_\_\_ The return line filter shall also include an in-cab filter by-pass monitor, which shall alert the operator or service personnel when the filter is in need of replacement.
- j.\_\_\_\_ The hydraulic system shall operate at an acceptable temperature without the need for external hydraulic oil cooling devices.

### **5.10 LUBRICATION**

- a.\_\_\_\_ All body hinges, cylinder rod ends, cylinder base trunnions and high cycle pivot shall be supplied with grease fittings.

### **5.11 CONTROLS**

- a.\_\_\_\_ The lift controls shall be electric over hydraulic and shall operate a four (4) section stack valve for the lift functions.
- b.\_\_\_\_ All hydraulic valves shall be solenoid controlled electric over hydraulic valves. Pneumatically controlled valves are not acceptable.
- c.\_\_\_\_ The lift controls shall be self centering type, returning to the neutral position when released.

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- d.\_\_\_\_ The body controls and joystick shall be electrical over hydraulic and located in the cab convenient to the operator. All valve components are to be easily serviceable without changing entire valve body.

### **5.12 ELECTRICAL**

- a.\_\_\_\_ The body functions in-cab control center shall be provided for system functions. All body controls shall be electrical and in easy reach of the operator.
- b.\_\_\_\_ All electrical wiring connectors to be automotive double-seal with wiring in split convoluted loom. All wiring connections to be soldered with rubber molded covering or crimp type connectors with shrink wrap. Unprotected wiring in any application is unacceptable.

### **5.13 LIGHTING**

- a.\_\_\_\_ Peterson Multi-Function (smart) LED Strobe/ turn lamps- Includes Led Light package for entire unit
- b.\_\_\_\_ All lights shall be provided in accordance with FMVSS #108, ANSI Z245.1-1999 plus mid body turn signals on each side of the body and a center brake light on the rear.
- c.\_\_\_\_ All lighting will be LED

### **5.14 REAR UNDERRIDE AND THE GUARD**

- a.\_\_\_\_ The body shall be equipped with a rear underride guard as standard equipment, to meet Federal Motor Carrier Safety Regulation 49CFR393.86, TTMA RP No. 41-02, and SAE J682 OCT. 84.

### **5.15 PAINT:**

- a.\_\_\_\_ Entire unit shall be properly cleaned of all dirt, grease and weld slag prior to painting.
- b.\_\_\_\_ Entire paint job shall have a 2-year minimum warranty against peeling, fading, or cracking.
- c.\_\_\_\_ Chassis cab paint color to be Sherwin Williams's #U7-51239-S (Pacific Green C/C Metallic) or equivalent brand with exact color match. Chassis dealer shall submit a paint chip to the body manufacturer prior to painting to ensure an exact paint match.
- d.\_\_\_\_ Body shall be primed and painted with the same brand and exact color of the chassis cab.
- e.\_\_\_\_ Two 3.0" or one 6.0" stripe and the "LR" logo are to be painted on the body in a professional manner. Color to be Sherwin Williams paint #U7-51230-Y (Light Saddle C/C Metallic). Striping pattern will be supplied after determining successful cab and packer body. The "LR" logo design will be supplied prior to painting.

### **5.16 CAMERAS / MONITOR:**

- a.\_\_\_\_ One (1) camera shall be mounted in a position as to view lift arm operation. This camera shall be mounted in a place as not to interfere with the arm. Install a protective guard around the camera to prevent from damaging the unit.

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- b.\_\_\_\_ One (1) camera shall be installed on the upper rear section of the body for rear visibility. Install a protective guard around the camera to prevent from damaging the unit.
- c.\_\_\_\_ One (1) camera shall be mounted as to view hopper operation.
- d.\_\_\_\_ One (1) 7 inch (min.) color monitor with sun hood shall be supplied in the cab utilizing all cameras.
- e.\_\_\_\_ Camera system will be safety vision SV-LCD-70 system

### 5.17 ACCESSORIES:

- a.\_\_\_\_ Install a 3-5 gallon water-cooler bracket and cooler in an adequate location as not to interfere with the operation of the truck/body.
- b.\_\_\_\_ Two (2) 3' x 5' sign bracket with plexiglass shall be supplied, one each side of body. Detailed mounting positions and specifications will be supplied with bid award.
- c.\_\_\_\_ In the pricing section, please state the cost for an additional set (enough to equip one complete packer body and arm assembly) of hydraulic cylinders.

## 6.0 WARRANTY -

- 6.1 Entire unit shall be warranted for a minimum of twenty-four (24) months against defective material or craftsmanship that fails under normal use or as stated below:
  - a.\_\_\_\_ Engine and transmission shall have a 5-year or 150,000 warranty.
  - b.\_\_\_\_ In the pricing section, please state cost for an additional 3-year warranty on the hydraulic cylinders (5-year total warranty).
- 6.2 MINOR WARRANTY REPAIRS: It is the intent of this warranty that the vendor performs all warranty repairs; however, at CLR's option, warranty repairs deemed by CLR to be minor in nature may be performed by CLR at the vendor's expense. Parts required for repairs made by CLR will be OEM parts and obtained from the vendor or any commercial source, at no cost to CLR. Only the actual time required for repairs will be reimbursed. Mechanics travel time; diagnosis time, etc. will not be included. Reimbursement by the vendor to CLR for the cost of warranty repairs will be computed as follows:
  - a.\_\_\_\_ **Labor** for warranty repairs will be calculated at the composite rate for the mechanic in effect at the time of the warranty repairs. Labor rate will not exceed \$60.00 per hour. The time allowed for each repair will be determined by the manufacturer's standard time schedule. Manufacturer's time schedule shall be furnished to Fleet Services with the unit at the time of delivery (if available). If a manufacturer's time schedule is not available, the actual time for repairs, as noted above, will be used.
  - b.\_\_\_\_ **Warranty Repair Claims** will be accumulated on CLR Repair Orders and will be billed from the same, unless the vendor prefers to have claims processed on the vendor's standard forms.
  - c.\_\_\_\_ **Parts** replaced will be held 30 calendar days and will be available for inspection by the vendor or authorized representative. Copies of invoices for all parts will be provided to the vendor. The cost of parts other than

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those furnished to CLR at no cost by the vendor will be billed at actual cost.

d.\_\_\_\_ **Billing and Payment** for minor warranty repairs will be accumulated, including labor and replacement parts (if not provided). Reimbursement payment shall be made within 30 calendar days of the billing date.

6.3 **MAJOR WARRANTY REPAIRS:** Major warranty repair work for the purpose of this specification means major repairs to the engine, transmission, drive train and hydraulic system. Diagnosis of the actual repairs and transportation required shall be the responsibility of the vendor.

a.\_\_\_\_ **Response Time:** Warranty repair action shall begin within two working days after notification is made to the vendor for need of warranty repairs. The warranty repairs should be completed and the unit returned to CLR within a reasonable period. For the purpose of this specification eight working days is defined as a reasonable period. Excessive delays incurred for the performance of warranty repairs by the vendor may adversely affect the vendor's status as a qualified bidder.

b.\_\_\_\_ **Parts and Service:** The manufacturer of the equipment furnished should have an authorized dealer within a 50-mile radius of the CLR. The authorized dealer should have factory-trained personnel available for warranty repairs and the performance of service. The dealer should also maintain an inventory of high-usage parts and a quick source for low-usage parts.

6.4 All warranties shall commence the first day the unit is placed into service by the CLR Fleet Services (NO EXCEPTIONS).

6.5 Warranty shall include all parts, labor, and transportation (if out of a 25 mile radius of Fleet Services) F. O. B. City of Little Rock Fleet Services Department.

6.6 Each unit shall be delivered with the following warranty documents, which shall be placed into effect upon final acceptance of each unit.

a.\_\_\_\_ Manufacturer's new vehicle warranty, which shall be honored at any local manufacturer-authorized dealership.

b.\_\_\_\_ Manufacturer's warranty shall be provided for each supplemental unit mounted on and delivered with each primary unit.

## 7.0 STANDARDS -

7.1 Each unit must meet or exceed the following applicable Standards:

a.\_\_\_\_ Environmental Protection Agency's Exhaust Emission Standards (EPA)

b.\_\_\_\_ Occupational Safety and Health Administration Standards (OSHA)

c.\_\_\_\_ Federal Motor Vehicle Safety Standards (Public Law89-563)

d.\_\_\_\_ Arkansas State Highway Commission Regulations regarding vehicles markings, lighting and reflectors.

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**8.0 DELIVERY / DOCUMENTATION -**

- 8.1 All units are to be delivered F.O.B. to the City of Little Rock Fleet Services located at: 3314 J. E. Davis Drive, Little Rock, AR 72209 for compliance inspection and final acceptance.
- 8.2 Delivery time required: 180 days or less
- 8.3 Failure of the vendor to meet the delivery requirements will be considered by the City as a justifiable reason to invoke the following conditions and to avail itself of the rights under the following section concerning liquidated damages. If the vendor fails to make delivery to the City of Little Rock's Fleet Services within the 180 day time period after bid award, the City's sanitation operation will result in substantial injury to the City and it's residents, and whereas damages from such failure cannot be calculated with any degree of certainty. It is hereby agreed that should any completed unit under this bid not be delivered within 180 days after purchase order postmark date, the vendor will pay to the City liquidated damages and not as a penalty, 1% of the bid price of that unit for each 30 day period of delay beginning on the 181<sup>st</sup> day until delivery. (Example: 180-210 days – 1%; 211-240 days – 2%; etc.) *Bid award may be determined by stated delivery date.*

Please state delivery date for unit to the City of Little Rock Fleet Services:

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- 8.4 The following documents shall accompany each unit during delivery:
  - a. \_\_\_ Manufacturer's Certificate of Origin
  - b. \_\_\_ Dealer invoice
  - c. \_\_\_ Manufacturers line setting ticket, window sticker, or other documentation of components installed by manufacturer.
- 8.5 The unit will be delivered clean or it will not be accepted

**9.0 OPERATION / MAINTENANCE MANUALS -**

- 9.1 Successful bidder agrees to furnish the following lists of literature for the chassis and body:
  - a. \_\_\_ Operator's Manuals (2-copies in paperback or 1-copy in CD format)
  - b. \_\_\_ Shop Maintenance and Overhaul (2-copies in paperback or 1-copy in CD format)
  - c. \_\_\_ Repair Parts Manuals (2-copies in paperback or 1-copy in CD format)
  - d. \_\_\_ Technical Service Bulletins (In printed format or E-mail when issued)

**10.0 TRAINING -**

- 10.1 Operator Training - Unit Operator (Required) 8 hours

**SPECIFICATION #: (F72-08-2) 30CY AUTOMATED SIDE LOADING REFUSE TRUCK**

10.2 Limited Maintenance Training - Instructing mechanics of new and or unique procedures and techniques on unit model bid (Required). 8 hours

10.3 Full Maintenance Training - Bidder agrees to arrange and support attendance of Fleet Service Mechanics at any local or factory training classes, which are open to any fleet customer. City of Little Rock will pay employee travel expenses and dealer registration cost for such training.

**11.0 SUPPORT SERVICES -**

11.1 Repair Parts Inventory - A stock of standard repair parts for unit bid must be available to the City of Little Rock within four (4) working days of part request. Parts inventory availability will be considered in the purchase decision.

11.2 Maintenance Service - Fully trained maintenance personnel shall be available for service within four (4) working days of repair requests on warranty service. Availability of maintenance personnel will be considered in the purchase decision.

**12.0 REFERENCES -**

Bidder agrees to furnish with this bid a minimum of five (5) references of users that have two (2) or more of your units in this model class that have been in service for a minimum of eighteen (18) months. Failure to do so will result in **immediate rejection**.

Cab & Chassis:

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Body & Arm:

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