

BID SOLICITATION



City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga TN 37402

BID OPENING DATE AND TIME:
05/08/2008 2:00 PM
BID NUMBER: B0005151

BUYER: Norwood, Shea
PHONE #: (423) 757 - 5184 ext.
DELIVERY REQUIRED: 05/08/2008 2:00 PM

City of Chattanooga
101 East 11th Street, Suite G13
Chattanooga TN 37402

SEALED BIDS
Mail or submit two (2) signed copies of bid form to this office in the enclosed envelope. Retain one copy for your file.

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Item	Class-Item	Quantity	Unit	Unit Price	Total
	Requisition No.: R0108099 Ordering Dept.: Fleet Management Buyer: Shea Norwood Phone No.: 423.757.4759 ***** Items Being Purchased: 20 YD Garbage Truck ***** ATTACHMENTS: Specifications Affirmative Action Plan ***** Payment Terms: _____ Estimated Delivery: _____ Bid As Specified: Yes _____ No _____ ***** City of Chattanooga (COC) Terms and Conditions posted on Website http://www.chattanooga.gov/finance/66_standardtermsandconditions.htm If you can't download, call buyer for a copy. . NOTE: ALL BIDS MUST BE SIGNED All bids received are subject to the terms and conditions contained herein and as listed in the above referenced website. The undersigned Bidder acknowledges having received, reviewed, and agrees to be bound to these terms and conditions, unless specific written exceptions are otherwise stated.				

NOTE: ALL BIDS RECEIVED ARE SUBJECT TO THE TERMS AND CONDITIONS.

ALL BIDS MUST BE SIGNED: The undersigned offers the above quoted prices under the conditions contained herein.

The City is Exempt from all Federal and State Tax.
Bids will be received at the above mentioned address.

COMPANY: _____

TERMS OF PAYMENT: _____

SIGNATURE: _____

TELEPHONE NUMBER: _____

NAME AND TITLE: _____

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	<p>Pre-Bid: City Purchasing Conference Room City Hall G13 - 10:00 AM, April 30, 2008. ***** *** BIDS MUST BE RECEIVED NO LATER THAN *** *** 2:00 PM EST on May 8, 2008 *** *****</p> <p>Any manufacturer's names, trade names, brand names, or catalog numbers used in the specifications are for the purpose of describing and establishing general quality levels. Such references are not intended to be restrictive. Bids will be considered for any brand which meets or exceeds the quality of the specifications listed for any item.</p> <p>The City of Chattanooga reserves the right to reject any and/or all bids, waive any informalities in the bids received, and to accept any bid which in its opinion may be for the best interest of the city.</p> <p>The City of Chattanooga will be non-discriminatory in the purchase of all goods and services on the basis of race, color, or national origin.</p>				

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Item	Class-Item	Quantity	Unit	Unit Price	Total
	<p>***** NOTE *****</p> <p>PLEASE PROVIDE US WITH THE FOLLOWING INFORMATION:</p> <p>Company Name _____</p> <p>Address _____</p> <p>Phone/Toll-Free No. _____</p> <p>Fax No. _____</p> <p>eMail Address _____</p> <p>Contact Person's Name _____</p> <p>Employer's ID No. _____</p> <p>Estimated Delivery _____</p> <p>Minority-Owned Business ___ Small Business ___ Veteran ___</p> <p>Minority Woman Owned Business ___ Disabled Veteran ___</p> <p>Women-Owned Business ___</p> <p>***** ALL ITEMS MUST BE QUOTED F.O.B. DESTINATION *****</p>				
1.0	20 YARD REFUSE REMOVAL TRUCK(GARBAGE) EQUIPMENT SHOULD BE NEW, UNUSED AND OF THE MANUFACTURER'S ACCEPTABLE SPECS. (SPECIFICATIONS ATTACHED)	1.00	EA		
				TOTAL:	

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One (1)-20 Yard Rear Load Refuse Truck Specifications

INTENT

The intent of these specifications is to describe the minimum requirements for a cab, chassis, and body for one (1) rear load refuse collection truck to be used by the City of Chattanooga Public Works Department. The equipment shall be new, unused and of the manufacturer's current production model. Bidder shall state any exceptions with specifications. These specifications are considered the minimum acceptable specifications.

A. Cab

1. Provide an air ride seat for the driver and a split bench for the passenger. The cab will be standard.
2. Front end of cab should have tilt capability for ease of engine service.
3. Provide two (2) 7.44" x 14.84" brackets breakaway type with 102" spacing with 7.44" square convex mirrors (**Both Sides**). Provide two (2) hood mounted convex 7.44" square mirrors (**Both Sides**).
4. Heater and defroster to be of high capacity and of re-circulating fresh air design.
5. Provide a 24" toolbox to the frame of truck opposite side of hydraulic tank.
6. Provide factory-installed driver side air ride seat.
7. Provide factory installed air conditioner.
8. Provide factory installed AM/FM radio with speakers.
9. Provide back up alarm.
10. Parking brake alarm system, electric horn sounds in repetitive manner when vehicle park brake is not set.
11. Gauges:
 - A. Provide electric speedometer with odometer.
 - B. Provide tachometer with hour meter.
 - C. Provide electric oil pressure, water temperature, fuel and voltmeter.
 - D. Provide warning lights and alarm for low air pressure, low oil pressure and high water temperature.
 - E. Provide warning lights for park brake on, transmission in neutral and transmission oil temperature.
12. Fuel tank top draw, Two (2) 50 gallon minimum capacity, polished aluminum, mounted under the cab.
13. Engine exhaust to be ran on left side (passenger side) up the mounted cab. The exhaust shall have a curved bend at end of exhaust not a rain flap. Horizontal exhaust with vertical pipe in a bright finish.
14. Chrome Front Bumper
15. Chrome Grill

- 44 16. Chrome Heated Mirrors with LED running light.
45
46 B. Engine:
47 Engine to be a minimum of 285 hp. to a maximum of 295 hp. **Engine to**
48 **be of wet sleeve construction.**
49 Electronic shutdown system, automatic, with warning light, and audible
50 alarm for oil pressure, coolant temperature and coolant level, System must
51 include automatic 30-second override.
52
53 C. Transmission:
54 1. 3500 RDS P wide ratio garbage service use. World Transmission 5 speed:
55 2. Transmission Shift Control (Allison) push button type for Allison 3000
56 and 4000 series transmissions.
57 3. Fill transmission with Transsend synthetic automatic transmission fluid by
58 Castrol.
59
60 D. Radiator:
61 Provide Coolant – Summer/Winter permanent antifreeze at –40 degrees F.
62
63 E. Frame:
64 1. Frame rails heat-treated alloy steel (yield strength 120,000 psi) 10.125” x
65 3.580” x 0.312” 204” – 206” wheelbase 74” maximum AF.
66 2. Outer Frame Reinforcement 10.813”x 3.892” x 0.312”. Yield strength
67 120,000-psi yield. Full “C” channel reinforcement heat-treated alloy steel.
68 3. Steel front bumper.
69 4. Two (2) tow hooks, front mounted.
70
71 F. Axles-Suspension
72 1. Front axle I beam type.
73 2. Front suspension, 18,000 pounds minimum.
74 3. Cramp angle to be 50 degrees and curb to curb 28 feet minimum.
75 4. Front Axle to set back minimum of 39 inches.
76 5. Rear axle single reduction.
77 6. Rear suspension 30,000 pounds minimum capacity.
78 7. 4,500 pound multileaf auxiliary springs
79
80 G. Tires and Wheels:
81 1. Front tires 11r22.5 tubeless, 16 ply, Michelin highway tread.
82 2. Front wheels, 22.5, 10-hole 8.5 Uni-Mount wheels
83 3. Rear tires, 11r22.5 tubeless, 16 ply, Michelin highway tread
84 4. Rear wheels, 22.5 10-hole 8.5” Uni-Mount wheels.
85 5. Provide optional front oil lubricated wheel bearings.
86
87 H. Front and Rear Brake System
88 1. Provide dual air brake system for straight truck applications.
89 2. Meritor 16.5 x 6 Q+ cast SPDR, S-cam FRT, BRKS, equal or better.

- 90 3. Refuse severe service, non-asbestos front lining.
 91 4. Gunitite cast iron front brake drums equal or better.
 92 5. Chicago rawhide Scotseal front oil seals equal or better.
 93 6. Front Brake dust shields
 94 7. Driver controlled traction differential lockout with indicator light.
 95 8. Meritor 16.5 x 7 Q+ cast spider cam Refuse type rear brake shoe.
 96 9. Gunitite cast iron rear brake drums equal or better.
 97 10. Rear Brake dust shields
 98 11. Chicago rawhide Scotseal rear oil seals equal or better.
 99 12. MGM TR-T long stroke 2-DRV-axle spring parking chambers equal or
 100 better
 101 13. Air Compressor, 13.2 CFM (Bendix TU-FLO 550) Equal to or better.
 102 14. Wabco 45/4M ABS W/O traction control enhancement equal or better.
 103 15. Reinforced nylon, fabric braid and wire braid chassis airlines.
 104 16. Fiber braid hose front service brake.
 105 17. Fiber braid hose rear service.
 106 18. Fiber braid parking brake hose.
 107 19. Standard brake system valves.
 108 20. Standard U.S. front brake valve.
 109 21. Relay valve with 5-8 PSI crack pressure.
 110 22. No rear-proportioning valve.
 111 23. BW AD-9 brake line air dryer with heater equal to or better.
 112 24. Steel air brake reservoirs.
 113 25. Auto spitters on all air reservoirs.
 114 26. Braking system must meet all federal standards.
 115 27. Automatic neutral transmission shifts to neutral when parking brake is
 116 engaged
 117
 118
 119 I. Chassis Requirements:
 120 1. The chassis requirement for a single axle standard 20 yard rear loader, the
 121 useable CA, Minimum AF, and the CF (CA + AF) will be set by the
 122 vendor that is selected. This is due that different 20-yard rear loader
 123 manufactures have different chassis requirements. However, the CA must
 124 be useable with no obstructions protruding above the frame. The packer
 125 body manufacture and truck manufacture must work to insure that the
 126 truck selected will be capable of carrying the net weight of body plus
 127 refuse to be collected.
 128
 129 J. Power Steering:
 130 1. Provide full power steering dual (2)
 131
 132 K. Electrical System:
 133 1. Provide negative ground 12-volt system.
 134 2. If multiplex system, must include remote power module with latch
 135 switching-6 minimum.

- 274 5. All cylinder and link pivot pins shall be kept in place with a minimum
275 grade 5 retaining bolts, lock nuts and lock collars.
276
- 277 J. Discharge of Load
278 1. The load shall be discharged by means of a positive ejection system. A
279 double acting, telescopic hydraulic cylinder shall extend and retract the
280 ejector panel the full length of the body. The ejector cylinder shall attach
281 to the body and to the ejector panel. The cylinder shall be positioned
282 diagonally to minimize possible damage from objectionable liquids.
283 2. The rod end of the ejector cylinder shall be pin mounted at the front
284 of the body to the main lateral bolster of the body longitudinal members
285 thus affording maximum resisting bending movement.
286
- 287 K. Cart Tipper:
288 1. The Perkins model number D6226 shall be installed on the middle of the
289 hopper opening. The valves and linkage to install the cart tipper are to be
290 supplied by the body manufacture. A hydraulic breakaway valve is to be
291 installed with the cart tipper. The handle to operate the cart tipper shall be
292 mounted and located on the curbside rear of the packer body.
293
- 294 L. Lighting:
295 1. All lighting to meet all OSHA, ANSI, and state requirements and be in
296 accordance with Motor Vehicle Safety Standard 108. All brake, turn
297 signal lights, taillights, marker lights and strobe light shall be LED.
298 2. Body shall also be equipped with duplicate LED stop, turn and taillights
299 above and below the hopper. Provide LED lights for rear turn signals and
300 auxiliary lighting. Brake, turn and tail lights use Whelen 200 series
301 maximum intensity 20R00XRR, back up lighting use 200 series Whelen
302 20C00WCR equal to or better.
303 3. Amber LED 360 Super-LED Beacon Whelen Model L31-Class 1, SAE
304 and California Title XIII Certified equal to or better mounted to the rear of
305 body and on the front top center of the cab for safety.
306 4. All electrical and lighting components shall conform to DOT standards.
307 5. Four (4) Amber LED alternating flashing lights at rear of truck. (Whelen
308 4" Round Super-LED® Lighthoods or better)
309 6. Two (2) alternating amber LED flashing light heads, one on each side of
310 truck body (Whelen 400 Series Linear-LED® Super-LED) or equivalent.
311 7. Two (2) alternating amber high intensity LED flashing light heads
312 mounted on the front grill.
313 8. All warning lights controlled on single switch.
314 9. All flashing lights should be amber.
315
316
317
- 318 M. Paint Preparation and Final Coat:
319 1. All parts will be shot blasted and primed with a high solids epoxy primer.

- 320 2. A coat of self-etching primer is to be applied.
326
329 1. Mud flaps must be supplied for front and rear axle
330 2. All body hinges, cylinder rod ends, cylinder base trunnions and pivot
331 points must be supplied with grease fittings
332 3. Factory parts, service and operator's manual must be supplied for the
333 refuse truck and packer
334 4. A CD disk must be supplied for interface with the Allison Transmission
335 and Engine. Also the pin hook (cable hook up) up must be supplied.
336 5. All training on the trucks and the training on the computer must be
337 supplied by the vendor supplying the equipment.
338 6. Fire extinguisher and bracket and safety triangles
339 7. Hopper work lights on both sides of the body
340 8. Vehicle to be equipped with a Lincoln (or equivalent) auto-lube for the
341 purpose of lubricating all lube points for garbage body and chassis to be
342 present as needed.
343 9. One (1) camera with low light vision for rear of truck with 7" color
344 monitor installed
345 10. Reflective yellow decal at rear of truck in minimum 8" black lettering
346 stating "Frequent Stops"

347
348 O. AVL:

- 349
350 Must include the following;
351 One (1) Location Technologies brand LT5 Mobile GPS/AVL Modem unit with Control
352 Head Interface Cable.
353 One (1) LT Battery Guard Vehicle Power Timer and cables
354 One (1) Location Technology permanent mount GPS Antenna (positioned on top, center
355 of cab) and cables
356 One (1) Modem Interface Assembly and cables
357 Data-only Radio: Motorola CDM-750, 4 channel UHF, 25 watt dash mount with 3 .5 db
358 gain antenna for the GPS/AVL system and cables
359
360 All equipment must work with current AVL system used by the City of Chattanooga,
361 Department of Public Works, Division of City-Wide Services. All wires and parts to
362 make AVL fully functional on the vehicle must be included.
363
364 Installation instructions:
365 Installation specifics to be determined by City personnel.

366
367 Contact Information:
368 Location Technologies, Inc.
369 5207 NW Crooked Road, Parkville, MO 64152
370 <http://www.loctech.com>

371
372 P. RADIO

373
374 Motorola Two-way radio compatible with the City of Chattanooga's current radio
375 operating system.

376
377 Q. WARRANTY

378
379 Warranty period shall be for five (5) years on the automated side loading refuse body and
380 all of it's components with no exceptions.

381 Warranty shall start on in service date.

382 All warranty registrations shall be completed by the vendor and copies provided.

383 Factory service manuals, electrical schematics and component loators to be supplied for
384 body and chassis.

385
386 Warranty period to be "bumper to bumper" for five (5) years on the chassis, engine,
387 transmission and drive train, excluding wear items.

388
389 Five (5) workday repair completion guarantee. The primary vendor will pay \$400 per
390 day of each day after the fifth day turnaround period has elapsed. Partial days will be
391 prorated based upon an eight (8) hour work day, beginning at 8:00 am.

392
393 Instead of the \$400 per day Five (5) work day repair completion guarantee penalty, the
394 vendor can provide a loaner vehicle of equal to or better quality specifications of the
395 automated truck that has exceeded the five day repair limit.

396
397 Bidder shall include copy of warranty terms and conditions and a list of any exceptions
398 from the warranty.

399
400 All warranty work for cab, chassis, and body shall be the responsibility of the bidder.

401
402 R. TRAINING

403 Minimum of 2-hour professional training for operators.

404

405 Minimum of 2 day training to be available to on site shop personnel

406