

March 28, 2006

INVITATION TO BID

Sealed bids will be received by the City of Auburn, until 10:00 a.m. local time, on April 6, 2006 in the Office of the City Manager, 144 Tichenor Avenue, Auburn, Alabama, and then publicly opened and read for furnishing the following:

2006 Diesel Powered 7.3 Cubic Yard Volumetric Capacity Street Sweeper

Bid specifications are attached. The City is requiring bid prices on one (1) 2006 Diesel Powered 7.3 Cubic Yard Volumetric Capacity Street Sweeper. Please direct any questions to Ray Pratt (334) 501-3095. Bids must be submitted on the attached form within a sealed envelope addressed:

City Manager, City of Auburn
144 Tichenor Avenue, Suite 1
Auburn, Alabama 36830

Envelope must be plainly marked on the outside as follows:

BID: One (1) 2006 Diesel Powered 7.3 Cubic Yard Volumetric
Capacity Street Sweeper
OPENING: 10:00 a.m., local time
DATE: April 6, 2006

The City of Auburn reserves the right, as the best interest of the city may require, to award the purchase contract from any of the bids, to reject any or all bids, and to waive any informalities in bids received. Bid will be good for ninety (90) days after being opened by the City of Auburn, Alabama. The City reserves the right to revert to the State of Alabama Contract if the bid price is higher than the contracted amount through the State.

The successful bidder will note that the City pays by invoice on each Thursday of the month. Invoices must be received by accounts payable at least seven working days before the scheduled check write. If you have any questions concerning billing, contact our accounts payable office at (334) 501-7237.

CITY OF AUBURN

Karen S. Broome
Purchasing Office

CITY OF AUBURN
AUBURN, ALABAMA
MINIMUM BID SPECIFICATIONS
2006 Diesel Powered 7.3 Cubic Yard Volumetric Capacity Street Sweeper

It is the intent of these specifications to describe a 2006 Diesel Powered 7.3 Cubic Yard Volumetric Capacity Street Sweeper. These specifications describe and state minimum requirements of this vehicle. Bids submitted on vehicles not meeting these minimum requirements will be subject to rejection.

The following are intended as guidelines, all equivalent or comparable units will be considered.

All bidders must fill in all blanks: **YES** if meeting or exceeding specifications and **NO** if exceptions are taken. Any exceptions taken must be explained in written detail on bidder's letterhead and attached to the bid submitted. Bidder must attach a copy of factory warranty for 2006 Diesel Powered 7.3 Cubic Yard Volumetric Capacity Street Sweeper.

	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
I. POWER UNIT			
A. Engine			
1. Diesel fueled, water-cooled, turbo-charged industrial engine	_____	_____	_____
2. Minimum 276 in ³ piston displacement	_____	_____	_____
3. Minimum 99 HP @ 2500 RPM and 274 ft/lbs torque @ 1400 RPM	_____	_____	_____
4. 4 cycle, 4.19 in. bore and 5.00 in. strike engine	_____	_____	_____
B. Wet sleeve type cylinder construction	_____	_____	_____
C. Spin-on type oil filter	_____	_____	_____
D. 12 volt ignition, electric starter and minimum 65 amp alternator with charge indicator gauge mounted on control console in cab	_____	_____	_____
E. Automatic shutdown system when coolant temperature is too high, coolant level is too low or oil pressure is too low	_____	_____	_____
F. 50 gallon fuel tank and batteries shared with chassis engine	_____	_____	_____
G. Replaceable element, heavy-duty dry type air cleaner	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
H.	Injector pump with centrifugal-type variable speed governor for speed control	_____	_____	_____
II.	DUST SEPARATOR			
A.	Separation of dirt and refuse from air stream within hopper by means of a multi-pass cylindrical centrifugal single chamber dust separator with a minimum size of 20 in. diameter and 61 in. width; designed so it will not plug with normally encountered debris	_____	_____	_____
B.	Minimum 24 in. x 61 in. curved, easy-to-open door on dust separator, allowing inspection and cleaning of interior; abrasion resistant, bonded rubber lining on door	_____	_____	_____
C.	Entire dust separator inlet area lined with bolt-in replaceable, wear-resistant rubber liner	_____	_____	_____
D.	Minimum 13 gauge steel, 61" x 84" steel screen to allow air to move freely from hopper into separator	_____	_____	_____
E.	Filters and baffles are unacceptable	_____	_____	_____
III.	HOPPER			
A.	Minimum 7.3 yd ³ volumetric hopper size with minimum 6 yd ³ operating load capacity	_____	_____	_____
B.	Hydraulically actuated cylinders attached to rear door to dump hopper; rear door with minimum opening of 84 in. x 44 in. with raker bar moving inside hopper as it's being opened and closed to dump debris behind the rear wheels	_____	_____	_____
C.	Hydraulic cylinder movement controlled with electric toggle switch located on the side of the hopper so discharging of debris may be viewed during dumping	_____	_____	_____
D.	Minimum 22° slope on hopper floor	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
E.	Door opened and closed hydraulically and held closed by means of a lock valve located in the hydraulic dump circuit	_____	_____	_____
F.	9.75 in. x 29 in. inspection door provided on both left and right side of hopper for easy viewing and insertion of large debris	_____	_____	_____
G.	Rubber seals on all doors and openings	_____	_____	_____
H.	Bolt-on, replaceable, wear-resistant liner (3/8 in. x 11 in. x 10 in.) in-hopper suction inlet roof area	_____	_____	_____
I.	Amber, high-powered strobe light with 2,300,000+ candle power, minimum input of 23 Joules, and 60 flashes per minute mounted on rear of hopper roof; strobe will have protective limb guard	_____	_____	_____
J.	Two (2) work lights mounted at rear of hopper to illuminate dump area	_____	_____	_____
K.	Two (2) amber flashing warning lights mounted at rear of the hopper	_____	_____	_____
IV	HYDRAULIC SYSTEM			
A.	Minimum 25 gallon reservoir, sight gauge, temperature gauge, 80 mesh suction strainer, spin-on replaceable full-flow oil filter, hydraulic cylinders, gutter broom drive motors, control valves, relief valves, oil cooler, hydraulic hoses and standard fittings	_____	_____	_____
B.	Engine mounted hydraulic pump; gear driven by the auxiliary engine	_____	_____	_____
C.	2500 PSI for gutter brooms; 1500 PSI for pick-up head and dump door	_____	_____	_____
D.	Abrasion protection package with standard hopper screen with screen baffles; protective hopper wall liners; suction nozzle liner; pressure wear pads; heavy-duty pressure hose	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
E.	Hopper deluge system with high volume nozzles which attach to fire hydrant to flush hopper; quick connect fittings on nozzle and filler hose	_____	_____	_____
F.	Hydrant wrench	_____	_____	_____
V.	BLOWER			
A.	Heavy-duty, die-cast, wear-resistant high strength aluminum alloy turbine type open face blower balanced within 4 grams	_____	_____	_____
B.	Blower wheel covered with wear-resistant rubber	_____	_____	_____
C.	Blower mounted on self-aligning anti-friction bearings, sealed and lubricated for life; if not sealed, automatic lube system	_____	_____	_____
D.	Blower driven from PTO off auxiliary engine by heavy-duty power belt which is adjustable for tension	_____	_____	_____
E.	Bolt-on design blower housing, lined with bolt-in wear-resistant, replaceable rubber liner	_____	_____	_____
F.	Maximum 3000 RPM blower	_____	_____	_____
VI.	PICK-UP HEAD			
A.	Spring balanced, all-steel fabricated pick-up head, maximum length and width of 87 in. x 30 in.	_____	_____	_____
B.	Separate upper and lower chamber pick up head; pressurized air blasted from upper chamber through an elongated blast orifice to street surface	_____	_____	_____
C.	Blast orifice flange of bolt-on design; flange easily replaced; with slots so blast orifice gap is easily adjusted without removing pick-up head from sweeper	_____	_____	_____
D.	Pick-up head with minimum 14 in. diameter pressure inlet ring located on left side of pick-up head	_____	_____	_____

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	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
E. Minimum 14 in. diameter pressure hose attached between pick-up head and blower housing	_____	_____	_____
F. Bolt-on pressure inlet ring with turning vanes	_____	_____	_____
G. Minimum 14 in. diameter suction hose, attached to quick connect transition at hopper, extending down right side of pick-up head and attached to pick-up head suction nozzle ring which should be constructed of ¼ “ steel	_____	_____	_____
H. Minimum 3/8” wall construction on suction hose	_____	_____	_____
I. Pick-up head equipped with 2 in. wide adjustable side-mounted integral alloy steel and carbide runners; skid runners warranted for 2 years/2,000 hours prorated; runners should be symmetrical	_____	_____	_____
J. Minimum height adjustment of 4 in. at the blast orifice on side plates	_____	_____	_____
K. Pick-up head raised and lowered hydraulically by a single switch on the control panel	_____	_____	_____
L. Pressure inlet ring equipped with adjustable pressure relief for optimum leaf and light debris sweeping; control mounted inside cab	_____	_____	_____
M. Pick-up head equipped with chains to prevent damage when unit is in reverse	_____	_____	_____
VII. GUTTER BROOMS			
A. Dual gutter brooms, minimum 43 in. diameter; wire filled vertical digger type for removing debris from gutter area	_____	_____	_____
B. Gutter brooms hydraulic motor driven and positioned laterally and vertically by one hydraulic cylinder	_____	_____	_____
C. Gutter broom down pressure automatically adjusted to load by pressure sensing sequence valve inline with gutter broom torque motor	_____	_____	_____

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	<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
D. Each gutter broom to adjust for bristle contact pattern and wear	_____	_____	_____
E. Each gutter broom with lateral flexibility to swing rearward 15 in. under truck chassis when encountering the impact of an immovable object, avoiding damage to broom assembly	_____	_____	_____
F. Each gutter broom with spring adjustment to allow downward compensation for bristle wear and free floating to follow street contour	_____	_____	_____
G. Each gutter broom held in the up and transit position by use of electric lock valve attachment; upward motion of gutter broom regulated by and adjustable flow control valve	_____	_____	_____
H. Each gutter broom controlled from inside the cab by single electric toggle switch	_____	_____	_____
I. Right gutter broom additionally incorporates a hydraulically actuated tilt capability of 27°, remotely controlled from the operator's seat to allow instant adjustment for debris removal from deep gutters	_____	_____	_____
VIII. DUST CONTROL WATER SYSTEM			
A. 220 gallon capacity water tank; constructed of recyclable polyethylene for strength and puncture resistance; 100 % rustproof; bolt-in design for easy removal; water level sight gauge	_____	_____	_____
B. Water tank filtered by 80 mesh cleanable filter located between tank and water pump	_____	_____	_____
C. 12 volt electric motor driven pump delivering minimum of 5.0 GPM with a 25 PSI system relief pressure and with an electronic solid state liquid level sensor to automatically shut off pump and turn on low water warning lamp when water depleted	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
D.	Cab-controlled electric solenoid water control valves; spray system includes spray nozzles located as follows: minimum of 4 on outside of pick-up head, 2 for each gutter broom, 1 inside hopper; water nozzles to be located on outside of pick-up head and suction tube for easy inspection and superior dust control	_____	_____	_____
E.	Anti-siphon/anti-pressure filler neck with air gap on water tank	_____	_____	_____
F.	Flexible, minimum 20 foot water fill hose with 2 ½ in. coupling for filling water reservoir and hose storage rack; water fill hose includes stainless 100 mesh cleanable filter	_____	_____	_____
G.	Hi/low pressure wash down system with self-contained water supply; 25 foot high pressure, low volume wash down hose, Cat 290 water pump (or equivalent); wand with trigger control and two interchangeable lance lengths of 48 in. and 36 in.	_____	_____	_____
H.	High output water system with additional nozzles and deflectors strategically located to control extreme dust	_____	_____	_____
IX.	HAND HOSE EQUIPMENT			
A.	Auxiliary hand hose; 8 in. diameter, 10 feet long with 52 in. long metal nozzle, suspended from spring counter-balanced swivel boom	_____	_____	_____
B.	Auxiliary hand hose hydraulic boom assist: power to raise/lower boom with hand held pendant control	_____	_____	_____
C.	Auxiliary hydraulic system to electrically operate the hydraulic system without auxiliary engine running	_____	_____	_____
X.	OPERATING CONTROLS			
A.	All operating controls for sweeper (including dump control) mounted inside truck cab and readily accessible to operator in either right or left driving position	_____	_____	_____
B.	All main electrical system, i.e. ignition, lights, hydraulic and water, separately fused to isolate electrical problems	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
C.	Auxiliary engine controls and gauges mounted on console panel and minimally consist of ignition switch, throttle, oil pressure gauge, water temperature gauge, voltmeter and tachometer	_____	_____	_____
D.	Sweeper controls, meters and gauges minimally consist of right gutter broom, left gutter broom, pick-up head, beacon or strobe light, water system and work light; lighted paddle type switches, low water light, hour meter and leaf pressure knob.	_____	_____	_____
E.	All external wiring, harnesses and terminations of sealed, weather-tight design, utilizing heat-shrinkable components; where feasible, all connectors utilize solid, cold-formed, nickel-plated copper alloy contacts with gas-tight crimps	_____	_____	_____
F.	Dump control consists of two (2) toggle switches; one located on exterior of sweeper just above left side fender well, other located inside truck cab	_____	_____	_____
XI.	CHASSIS			
A.	General			
1.	Conventional chassis/cab with tilt hood	_____	_____	_____
2.	Frame – straight full channel steel rails, 50,000 PSI; minimum GVW rating of 30,000	_____	_____	_____
3.	Curb weight, with cab, fuel, water, oil and tires approximately 9,000 lbs	_____	_____	_____
4.	Enclosed cab with tinted safety glass all around and two individual, adjustable high-back air seats with lumbar support and safety seat belts; sliding windows are unacceptable	_____	_____	_____
5.	Front tow hooks bumper mounted	_____	_____	_____
B.	Wheelbase			
1.	Maximum 152 in; provide 84 in. between back of cab and center of rear axle	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
	2. Special frame drilling and brake chambers relocation	_____	_____	_____
C.	Axles			
	1. Front axle minimum of 8,000 lbs with 8,000 lbs suspension	_____	_____	_____
	2. Rear axle 22,000 lbs single speed with 6.50 ratio; minimum suspension 31,000 lbs, vari-rate with 4,500 lbs capacity multi-leaf auxiliary rubber spring	_____	_____	_____
	3. Body builders wiring to back of cab at frame	_____	_____	_____
D.	Steering			
	1. Dual operator controlled integral power steering with cruise control and tilt	_____	_____	_____
	2. Minimum 18 in. diameter steering wheel	_____	_____	_____
E.	Brakes			
	1. Full air service brakes with 13.2 cfm air compressor	_____	_____	_____
	2. Air tank drain valve, manual with pull cable	_____	_____	_____
	3. Front brakes – 15 in. x 3 ½ in	_____	_____	_____
	4. Rear brakes – 16 ½ in. x 7 in	_____	_____	_____
	5. Automatic slack adjusters (front and rear)	_____	_____	_____
	6. Spring actuated, double diaphragm parking brake, 30 in. MGM chambers (or equivalent) air chambers with warning light	_____	_____	_____
	7. Brake chambers, spring relocated to rear of rear axle for maximum ground clearance	_____	_____	_____
	8. 4-channel anti-lock brake system	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
F.	Cab			
	1. In-dash chassis manufacturer's factory installed air conditioner with air filter	_____	_____	_____
	2. Individual driver and passenger air	_____	_____	_____
	3. Dual sun visors, coat hook, storage pocket on driver door, cigar lighter, electric horn, electric windshield washer and 2 speed electric wipers with intermittent wiper switch	_____	_____	_____
	4. Fresh air heater, defroster, dual 7 in. x 16 in painted mirrors, two 8 in. diameter parabolic mirrors	_____	_____	_____
	5. AM/FM stereo radio with weatherband and clock	_____	_____	_____
G.	Electrical			
	1. Consist of two, multiple beam headlights with dash beam indicator, instrument panel, tail lights, stop lights, front and rear turn signals, and self-canceling signal switch, equipped for four-way flashing; tail lights, stop lights and signal lamps may be in combination	_____	_____	_____
	2. Two 12-volt (1100 CCA total) maintenance-free batteries	_____	_____	_____
	3. 100 amp alternator	_____	_____	_____
H.	Engine			
	1. V8 turbo-charged engine, air-to-air inter-cooled diesel with minimum 175 HP at 2600 RPM, 365 in ³ (6L)	_____	_____	_____
	2. Dual element, dry-type air cleaner with dash-mounted restriction indicator	_____	_____	_____
	3. Automatic glow plug with indicator light	_____	_____	_____

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		<u>YES</u>	<u>NO</u>	<u>OFFERED</u>
4.	Fuel/water separator	_____	_____	_____
5.	Automatic shutdown/over-temperature protection engine coolant	_____	_____	_____
6.	Remote engine control wiring	_____	_____	_____
7.	Engine equipped with block heater	_____	_____	_____
I.	50 gallon steel fuel tank, supplying both engines	_____	_____	_____
J.	Tires and wheels			
1.	Heavy-duty first line quality tubeless tires, minimum 11R x 22.5, 14 ply rating with duals in rear	_____	_____	_____
2.	Wheels to be 10 hole disc 22.5 x 8.25 DC	_____	_____	_____
K.	Heavy-duty Allison electronic transmission (or equivalent); five-speed forward, one reverse, automatic, with external oil filter	_____	_____	_____
L.	Paint – manufacturer’s standard white over suitable primer; pick-up head, gutter brooms and truck frame painted black	_____	_____	_____
XII.	WARRANTY			
A.	Total chassis coverage is 24 month/unlimited mileage	_____	_____	_____
B.	Engine (diesel) coverage is 36 months/150,000 miles	_____	_____	_____
C.	Drive train coverage is 24 months/unlimited mileage	_____	_____	_____
D.	Frame coverage is 60 months/unlimited mileage	_____	_____	_____
E.	Cab corrosion coverage is 60 months/unlimited mileage	_____	_____	_____
F.	Warranty coverage is 100% parts and labor unless otherwise noted as provided by chassis manufacturer	_____	_____	_____

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YES NO OFFERED

G. Sweeper warranted free from defective materials and workmanship for 12 months/1,000 hours from date of delivery	_____	_____	_____
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XIII. MANUALS/TRAINING

A. Two sweeper operator’s manuals, two sweeper parts and service manuals	_____	_____	_____
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B. Manufacturer to have available certifiable training course for complete maintenance and operator of sweeper	_____	_____	_____
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XIV. OTHER GENERAL SPECIFICATIONS

- A. Standard equipment not mentioned is to be included.
- B. Successful bidder must be capable of performing own warranty work in his maintenance department.
- C. Vehicle other than new or demonstration model, unless specified, will not meet specifications.

XV. DELIVERY

- A. Unit to be delivered to the following address:
356 North Donahue Drive
Auburn, Alabama 36832
- B. Bid price will F.O.B. Auburn and includes title application.
- C. **The city must be sent a copy of the confirmation order within 24 hours after receipt of order.**

CITY OF AUBURN
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TO: City of Auburn

We, the undersigned, propose to furnish the items listed below and guarantee that if we are awarded the bid, we will furnish these goods in accordance with the attached specifications. **THIS FORM MAY BE COPIED IF YOU WISH TO BID ALTERNATE MODEL EQUIPMENT.**

YOU MUST SPECIFY THE EXACT EQUIPMENT BEING BID
(Enclose brochures/description documents if needed)

MAKE BID: _____

MODEL BID: _____

TOTAL BID: _____

ESTIMATED DELIVERY DATE: _____

DELIVERY DATE IS IMPORTANT CONSIDERATION

Exceptions: _____

BID PRICE IS GUARANTEED FOR NINETY (90) DAYS AFTER BEING OPENED BY THE CITY OF AUBURN

Authorized Signature

Name of Firm

Printed Name of Signee

Address

Date

City, State, zip

Phone/Fax No.

NOTE THAT THERE IS THE POSSIBILITY THAT HIS EQUIPMENT WILL BE ON A LEASE PURCHASE PLAN THROUGH OUR OWN FINANCIAL SOURCE AND IT WILL BE IN THEIR NAME UNTIL SUCH TIME AS THE LEASE IS PAID OFF.