

Do Not Return Via Email or Fax

This is Not an Order

Mailing Address:
P. O. Box 1948
Mobile, Alabama 36633
(251) 208-7434

Purchasing Department
and Package Delivery:
Government Plaza
4th Floor, Room S-408
205 Government St
Mobile, Alabama 36644

READ TERMS AND CONDITIONS
ON REVERSE SIDE OF THIS PAGE
BEFORE BIDDING

Typed by: en Buyer: 002

Please quote the lowest price at which you will furnish the articles listed below

Table with columns: DATE (04/15/2021), BID NO. (5549), DEPARTMENT (Motor Pool), Commodities to be delivered F.O.B. Mobile to: (As Specified)

This bid must be received and stamped by the Purchasing office not later than: 11:00 AM, Tuesday, May 4, 2021

Main bid table with columns: QUANTITY, ARTICLES, UNIT, UNIT PRICE (Dollars, Cents), EXTENSION (Dollars, Cents). Includes detailed description of CAB AND CHASSIS KNUCKLE BOOM TRASH LOADER, HYDRAULIC WET LINE KIT AND TRAILER PACKAGE.

TOTAL

RETURN ONE SIGNED COPY OF THIS BID
IN ENCLOSED ENVELOPE

State delivery time within ___ days of receipt of P.O.

Firm Name _____

Typed Signature _____

By _____

We will allow a discount ___% 20 days from date of receipt of goods
and correct invoice of completed order.

1. All quotations must be signed with the firm name and by an authorized officer or employee.
2. Verify your bid before submission as it cannot be withdrawn or corrected after being opened. In case of error in extension of prices, the unit price will govern.
3. If you do not bid, return this sheet and state reason. Otherwise, your name may be removed from our mailing list.
4. The right is reserved to reject any, or all quotations, or any portions thereof, and to waive technicalities if deemed to be in the interest of the City of Mobile.
5. This bid shall not be reassignable except by written approval of the Purchasing Agent of the City of Mobile.
6. State brand and model number of each item. All items bid must be new and latest model unless otherwise specified.
7. If bid results are desired, enclose a self-addressed and stamped envelope with your bid. (All or None bids only)
8. Do not include Federal Excise Tax as exemption certificate will be issued in lieu of same. The City is exempt from the Alabama and City sales taxes.
9. PRICES ARE TO BE FIRM AND F.O.B. DESTINATION UNLESS OTHERWISE REQUESTED.
10. BID WILL BE AWARDED ON ALL OR NONE BASIS UNLESS OTHERWISE STATED.
11. Bids received after specified time will be returned un-opened.
12. Failure to observe stated instructions and conditions will constitute grounds for rejection of your bid.
13. Furnish literature, specifications, drawings, photographs, etc., as applicable with the items bid.
14. Vendor May be required to obtain City of Mobile Business License as applicable to City of Mobile Municipal Code Section 34-50. For Business License inquiry contact the Revenue Department at (251) 208-7461 or cityofmobile.org/taxes.php.
15. If a bid bond is required in the published specifications, see below:
Each Bid Shall be Accompanied By A **Cashier's Check, Certified Check, Bank Draft Or Bid Bond** For the Sum Of Five (5) Percent Of The Amount Bid, Made Payable To The City Of Mobile And Certified By A Reputable Banking Institution. All Checks Shall Be Returned Promptly, Except The Check Of The Successful Bidder, Which Shall Be Returned After Fulfilling The Bid.
16. Contracts in excess of \$50,000 require that the successful bidder make every possible effort to have at least fifteen (15) percent of the total value of the contract performed by socially and economically disadvantaged individuals.
17. All bids/bid envelopes must have the bid number noted on the front. Bids that arrive unmarked and are opened in error shall be returned to vendor as an unacceptable bid.
18. If successful vendor's principal place of business is out-of-state, vendor may be required to have a Certificate of Authority to do business in the State of Alabama from the Alabama Secretary of State prior to issuance of a Purchase Order. Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx . Please note that the time between application for and issuance of a Certificate of Authority may be several weeks.
19. Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State to submit a bid, but will need to obtain the Business License and Certificate of Authority, if applicable, prior to issuance of a Purchase Order.

BID CONTINUATION SHEET

QUANTITY	ARTICLES	UNIT	UNIT PRICE		EXTENSION	
			Dollars	Cents	Dollars	Cents
	<p align="center">Page 2 of 2</p> <p>City of Mobile Business License will be required.</p> <p>All vendors will be required to provide verification of Enrollment in the E-Verify program. Additional information may be found at http://immigration.alabama.gov/</p> <p>If the successful vendor's principal place of business is out-of-state, Vendor may be required to have a Certificate of Authority to do Business in the State of Alabama from the Secretary of State prior to issuance of a Purchase Order.</p> <p>Vendors are solely responsible for consulting with the Secretary of State to determine whether a Certificate is required. See: www.sos.alabama.gov/BusinessServices/ForeignCorps.aspx. Please note that the time between application for the issuance of a Certificate of Authority may be several weeks.</p> <p>Upon notification, vendor will have 10 business days to provide the Certificate of Authority and the E-Verify numbers to the Purchasing Department before award can be completed. (Vendors will possibly need to pay the expedite fee to meet this requirement because application is not sufficient. We must have a copy of the certificate with your Company ID number).</p> <p>Vendors do not need a City of Mobile Business License or Certificate of Authority from the Alabama Secretary of State, nor the E-Verify for certification to submit a bid, but will need to obtain the Business License and Certificate of Authority verification and/or provide the E-Verify Certification, if applicable, prior to the award of this bid.</p> <p>State of Alabama Local Vendor Preference Law 41-16-50 (a) and (d) will apply to this purchase.</p> <p>Any manufacturer name given is to set a level of quality of specification of what the City wants.</p> <p>Only one (1) item is no substitute in this bid.</p> <p>Pricing to be firm for a one (1) year period following the award of this bid. At the option of the City of Mobile, the award of this bid may be extended for two (2) additional one (1) year periods.</p> <p>If you have any questions, please feel free to contact the Purchasing Department at 251-208-7434 or purchasing@cityofmobile.org.</p> <p>TO BE AWARDED ALL OR NONE</p>					
			TOTAL			

RETURN ONE SIGNED COPY OF THIS QUOTATION IN ENCLOSED ENVELOPE

READ ABOVE INSTRUCTIONS BEFORE QUOTING

Firm Name _____

By _____

We will allow a discount _____% 20 days from date of receipt of goods and correct invoice of completed order.

SPECIFICATIONS

These **MINIMUM** specifications are intended to describe a truck mounted, hydraulic operated knuckle boom trash loader. To be used in collection and loading of bulk trash, limbs, leaves, building materials of like nature. These specifications are describing and stating the minimum requirements of a truck mounted trash loader to perform this function.

A-Frame.

To be constructed of twenty-one (21) inch wide I-beams at 50 pounds per foot. Top of frame to be constructed of 1 3/4" steel plate, surfaced and drilled to accommodate slewing ring bearing. Bottom of frame to be constructed of 1" plate steel drilled to accommodate (8) 1" tie bolts. A-frame to be enclosed with two removable steel cover plates which will shield hydraulic valve and other hydraulic components from operator. A-frame will incorporate manual stops to prevent continuous pedestal rotation. Stops to allow 280° rotation minimum.

Yes No

Pedestal Top.

To be constructed of a 1 3/4" bottom plate surfaced and drilled to accommodate slewing ring bearing. Side uprights constructed of 3/4" plate with bushings to accommodate main boom and main boom lift cylinder connections. Pedestal top to incorporate manual stops to prevent continuous boom rotation. Stops to allow 280° rotation minimum. Pedestal top to incorporate a metal enclosure to cover slewing ring and 8" OD retaining tube.

Boom Rotation.

Rotation to be accomplished utilizing a slewing ring bearing 3 1/2" thick and 25-5/8" in diameter. Slewing bearing to have (32) 3/4" grade 8 top bolts and (36) 3/4" grade 8 bottom bolts properly torqued. Bearing grease fitting marked and easily accessible. A piston motor/planetary gearbox will drive a pinion gear that will engage the outside diameter of the slewing ring producing boom swing. Planetary gearbox pinion gear will attach to a 2 1/4" hardened tapered shaft minimum.

Main Boom.

To be constructed of (2) 4 x 8 x 3/8 wall tubes. Main boom to be of twin design and will incorporate a manual stop for tip boom to prevent tip cylinder from bottoming out in the extended position. Boom will have bushings to utilize a hardened 2" main boom hinge pin, cylinder connection pins and a 2 1/4" hardened tip boom hinge pin. All through boom, hydraulic tubes will be installed between and below the top surface of main boom tubes. Boom will have a boom up alarm.

Tip Boom.

To be constructed of a 5 x 7 x 3/8 wall tube. Tip boom will utilize a 2 1/4" hardened hinge pin and replaceable hardened bushings. Tip boom cylinder connection will have bushings to utilize a 2" hardened pin. Tip boom will have provision for connection of trash grapple with bushings to utilize a 1 1/2" hardened connecting bolt.

Yes No

Boom Length.

Total length of boom to be 18 feet.

Lifting Capacity.

At sixteen feet (16') loader must lift 4,500 pounds "pay load" in addition to weight of grapple. Main boom must have two (2) cylinders with a minimum of 4 1/2" ID, 3/8" thick wall tube, self aligning cylinders with a minimum of 4 1/2" ID, 3/8" thick wall tube, self aligning hose failure. Loader must be capable of lifting the 4,500 pound payload with a maximum hydraulic pressure reading of 2,100 psi.

Loader Stabilizers.

Loader must be equipped with hydraulic operated stabilizers. Stabilizers to be positioned for maximum stability when lifting a 4,500 pound load at 16 feet. Stabilizers to be equipped with street pads and shall not be placed in such a manner to cause blocking of traffic, or create hazards in the street when in down position. Stabilizer cross tube to be mounted underneath truck frame and will be 8" x 8" x 3/8" thick. Outside stabilizer tube will be 8" x 8" x 3/8" thick. Inside slide will be 6" x 6" x 3/8" thick. Slide tube will utilize 4 replaceable nylatron slide pads. Stabilizer cylinders will be mounted inside inner tubing and easily removed from the top of stabilizers. Cylinders will not be exposed. Stabilizers will have a maximum of 11 feet spread in the down position. City of Mobile prefers to have retractable stabilizers rather than out and down style stabilizers.

Power Source.

Unit to be mounted on any acceptable truck chassis utilizing a heavy duty hotshift PTO and direct mount single pump. Pump to produce a minimum of 24 gpm at 1500 rpm for smooth and efficient operation of loader. PTO controls will be integrated with truck chassis and will not engage unless truck chassis is in neutral. An interruption of either of these conditions will terminate PTO operation.

Control Valve.

Unit to be equipped with a 7-section valve assembly. Valve assembly to be proportional type with hydraulically actuated spools. Control valve to be equipped with main pressure reducer and adequate port pressure reducers. Valve to be capable of hydraulic flows of up to 30 gpm and a main pressure setting of 2100 psi. Control valve to be mounted inside of pedestal base.

Control Valve Controls.

Yes No

Unit to be equipped with hydraulic piloted joystick and foot controls for ease of operation and less operator fatigue. Joysticks and foot control will operate every loader function and will be located at operator' station in easy access of operator. Stabilizer controls can be level operated, but must be conveniently located for operators ease of use. The City of Mobile will want to review placement of controls and adjust for operators' ease of use and convenience prior to construction.

Operators Station.

Unit to be equipped with an open operator's platform mounted to the pedestal top curbside. Platform to incorporate an operator's seat with seat belt, joystick and foot pedal controls, float controls, throttle control switch and hand/safety rails.

Hydraulic Oil System and Oil Tank Filters.

Hydraulic system must be equipped with a 80 gallon oil tank with a hydraulic Oil ball valve cut off valve at the bottom of the tank on driver's side of truck, oil level and temperature gauge utilizing a 50 gallon per minute externally mounted return oil filter with a replaceable 10 micron absolute filter element. There shall also be a 50 or more gallon per minute oil filter between the hydraulic oil tank and the hydraulic pump. Filter elements must be easily accessible. Unit to be equipped with a 40 gpm pressure filter with a replaceable 10 micron absolute filter element. Pressure filter to be installed in hydraulic system after pump and prior to any other hydraulic components. Pressure filter to be equipped with a condition sensor and dash mounted light. Light will remain on when filter element needs servicing.

External Hydraulic Oil Cooler for Loader

There shall be an external fan forced air hydraulic oil cooler of loader's Hydraulic oil. Fan shall ne thermostatically controlled.

Throttle Control.

Unit to have a throttle control integrated with truck chassis to maintain proper engine speed while loader is in operation. Engine speed will not increase unless truck chassis is in neutral, parking brake is set and PTO is engaged. Engine speed will return to idle when any of these conditions are terminated. Throttle control parameters will be set in such a way as to prevent engine speeds being increased above 1500 rpm while PTO is engaged. An engine throttle control switch to be mounted at operators platform for operator convenience.

Trash Grapple.

Loader to be equipped with a continuous rotating bucket by means of hydraulic operated rotator with no mechanical stops. Continuous rotator shaft must be 3"

in diameter. Rotator to utilize a 3" top and bottom roller bearing. Rotator to have three easily replaceable seals. Trash grapple to have a closing pressure of 4,000 pounds. Grapple to be opened and closed by means of two (2) hydraulic cylinders a minimum of 3½" in diameter with a heavy duty clevis on rod end. Bucket cylinders and hoses to be enclosed in a removable steel cover to prevent limbs and other debris from damaging cylinders and hoses. Grapple is to be 4 feet long and open to 60 inches, lip to lip. Center of bucket to be 18 inches from ground minimum at fully opened position. Bucket to be equipped with replaceable grader edges at biting point.

Float Control.

Yes No

Loader must have float controls to allow boom/bucket to free-turn and float up/down with trailer while unit is in transit and boom is resting in trailer. Float controls to be located at operator's platform.

Cylinders.

All cylinders to be of high quality utilizing chrome rods and replaceable bushings/bearings. Loader to be equipped with (2) main boom cylinders to be 4½" bore x 28" stroke with 2¼" rods with integrated locking valves,
 (1) tip boom cylinder to be 4½" bore x 32" stroke with 2½" rod with
 (2) integrated locking valve, (2) bucket cylinders to be 3½" bore x 8"
 (3) stroke with 1¾" rods and (2) outrigger cylinders to be 3" x 20" stroke with nylon wear pads in outriggers.
 (4) with 1¾" rods with integrated locking valves.

Selector.

To have a selector valve to divert hydraulic oil from loader controls to dump trailer controls and quick couplers at trailer connection point. Quick couplers to be compatible with equipment in current use by the municipality.

Electrical.

To be equipped with high quality electricals located in truck cab. A 6 pin trailer electrical connector located at trailer connection point.

Lighting

All vehicle lighting shall conform to current Federal standards. All lighting shall be LED

Hardware.

To be equipped with fenders over rear wheels and mud flaps . To have a steel rack between truck cab and loader pedestal for storage of bucket when not resting in trailer. Must have full-length sub-frame running from behind cab to the end of the truck frame. Sub-frame to be 3 x 4 x 3/8 tube minimum. Must be equipped with a cab protector and attached tool rack. To have adequate ladder/steps to access operators platform from ground level. Tie bolts must incorporate frame spacers to prevent frame collapse when

tightening.

Towing.

To be equipped with a pintle hook rated at a minimum of 90,000_pounds and (2) D-ring style safety chain hooks.

Pintle hitch shall be a SAF-Holland model PH-210RN11, No Substitute.

Mounted 27” from ground to center of hitch

Trailer Connections

there shall be connections for air brakes, hydraulic for dumping of trailer and landing gear

Paint.

All metal to be properly cleaned, primed and painted white with white cylinders, grapple, and O/R.

Warranty

5 Year body warranty

5 Year Service Agreement – Body See Attached.

SPECIFICATIONS

MINIMUM specifications for 1 to 10 of the latest model **Cab and Chassis at 102 CA or equivalent**. All equipment furnished under this contract shall be new and unused, and the same as the manufacturers current production model. Accessories not specifically mentioned, but necessary to furnish a complete assembled, painted, and ready for operation. The equipment furnished shall conform to all applicable FMVSS requirements as set forth by the NHTSA.

GENERAL

	Yes	No
1. The chassis shall have a factory certified GVWR of 33,000 lbs.	_____	_____
2. Wheelbase to meet body manufacturer's requirements.	_____	_____

FRAME

1. Heat treated alloy steel. 120,000 PSI yield Steel crossmembers.	_____	_____
2. Front tow hook mounted on curbside rail.	_____	_____
3. Straight C channel frame (tapered frames not allowed).	_____	_____

ENGINE

1. Diesel-Minimum 260 HP with 50 State Emission	_____	_____
2. 585ft.-lb. torque at 1500 RPM	_____	_____
3. Electronic engine integral shutdown protection system.	_____	_____
4. Engine to comply with current Federal emissions.	_____	_____
5. Drive Trane Warranty Power Trane 5 year 250,000 miles zero deductions warranty is to cover drive shaft, transmission, axles, injectors, and water pump.	_____	_____

TRANSMISSION

1. Allison Automatic 3000-RDS with PTO provisions.	_____	_____
2. Shift Control - electric shift.	_____	_____
3. 5 speed with overdrive.	_____	_____
4. Transmission Cooler.	_____	_____
5. Synthetic Transmission Fluid.	_____	_____

FRONT AXLE/SUSPENSION/WHEELS/TIRES

1. Meritor Axle: I-Beam type with 12,000 - lbs. capacity.	_____	_____
2. Suspension: 12,000 - lbs. with soft ride characteristics.	_____	_____
3. Shock absorbers.	_____	_____
4. Factory front end alignment.	_____	_____
5. Integral power steering with 51 degree wheel cut.	_____	_____
6. Stemco oil lubricated wheel bearing.	_____	_____
7. Outboard mounted brake drum.	_____	_____
8. Front cam brakes Q-plus 15" x 4.0" w/MGM chambers.	_____	_____
9. Two (2) 22.5 x 8.25 10-hub piloted steel wheels.	_____	_____
10. Two (2) 11R22.5 14ply radial tires.	_____	_____

REAR AXLE/SUSPENSION/WHEELS/TIRES

Yes No

- 1. Axle: Meritor RS21-145
- 2. Suspension: Spring rated at 21,000 - lbs.
- 3. 5.57 rear axle ratio.
- 4. Brake cam and chambers on forward side of drive axle.
- 5. Rear cam brake Q-plus 16.5 x 7.0 w/MGM chambers.
- 6. Four (4) 22.5 x 8.25 10-hub piloted steel wheels.
- 7. Four (4) 11R22.5 14ply lug radial tires.

BRAKE SYSTEM/AIR SYSTEM

- 1. Full air with anti-lock brake system.
- 2. Brake Spiders - Cast ONLY front & rear.
- 3. Auto slack adjusters front and rear.
- 4. Non-Asbestos brake lining - Front and Rear.
- 5. Compressor - 10.1 CFM at 1800 RPM.
- 6. Bendix AD-IP air dryer with heater.
- 7. D-2 governor located at the air dryer for easy maintenance.
- 8. Air tanks may be Aluminum or steel.
- 9. Low pressure warning light and buzzer.
- 10. Air brake parking valve handle, located convenient to operator.
- 11. Air brake system must have air line with glad hands for trailer towing.

AIR FILTERATION

- 1. Donaldson air intake with firewall mounted air cleaner.
- 2. Dash mounted air restriction indicator.

EXHAUST SYSTEM

- 1. Single underbody exhaust.
 - 2. Stainless steel flex tubing.
 - 3. Heat shield on turbocharger and muffler.
- Exhaust shall be underbody and mounted to direct exhaust fumes and odors away from the driver and the knuckle boom operator locations.
- Vertical exhaust is not acceptable

FUEL SYSTEM

- 1. Aluminum 52 gallon capacity mounted curbside under cab.
- 2. Steel braided fuel line. Fire resistant hose.
- 3. Davco 230 heated fuel water separator.

COOLING SYSTEM

- 1. Coolant protection to -34 degrees Fahrenheit.
- 2. Lower radiant guard.
- 3. Rubber coolant hoses with constant torque clamps.

CAB

- 1. Flat roof conventional cab.

- | | | |
|---|-------|-------|
| 2. Vinyl high back air suspension driver's seat with fore and aft adjustment, integral headrest. Seat belt | _____ | _____ |
| 3. Vinyl two man passenger seat with integral headrests, fixed back, and seat belts. | _____ | _____ |
| 4. Air horn. | _____ | _____ |
| 5. Combination heater/air conditioner unit. | _____ | _____ |
| 6. Steel front bumper. | _____ | _____ |
| 7. Each side to have West Coast Style mirrors; electric adjust with convex mirror and two (2) hood mounted mirrors. | _____ | _____ |
| 8. Electric powered windows. | _____ | _____ |
| 9. AM/FM Radio. | _____ | _____ |
| 10. 5-lb fire extinguisher and tri-angle kit. | _____ | _____ |
| 11. Ignition and door keyed alike. | _____ | _____ |
| 12. 20 in step height each side. | _____ | _____ |
| 13. Windshield wipers w/intermittent feature. | _____ | _____ |
| 14. Insulated headliner, lighter, interior light, vinyl floor covering. | _____ | _____ |
| 15. Storage overhead with doors that latch - driver and passenger. | _____ | _____ |
| 16. All window to have safety tinted glass. | _____ | _____ |
| 17. All glass must be roped in not bonded for ease of replacement. | _____ | _____ |
| 18. Cab must have cup holders convenient to operator. | _____ | _____ |
| 19. Full set of gauges. | _____ | _____ |
| 20. Electronic display DPR Monitor. | _____ | _____ |
| 21. Electronic display engine / vehicle diagnostics. | _____ | _____ |

ELECTRICAL

- | | | |
|--|-------|-------|
| 1. 105 amp alternator. | _____ | _____ |
| 2. 12 volt system with solid-state circuit protection. | _____ | _____ |
| 3. 1200 CCA maintenance free batteries. | _____ | _____ |
| 4. Body builder wiring harness. | _____ | _____ |
| 5. 12v power supply in dash. | _____ | _____ |
| 6. Engine shutdown for low oil pressure, high coolant temperature, low coolant level. | _____ | _____ |
| 7. Horizontal mounted insulated wiring harnesses to protect against standing moisture at connection point. | _____ | _____ |
| 8. Headlights turn signals and LED marker lights. | _____ | _____ |

COLOR

- | | | |
|---|-------|-------|
| 1. Cab exterior: Manufacturers' standard WHITE. | _____ | _____ |
| 2. Cab interior: black - grey. | _____ | _____ |

WARRANTY & SERVICE PLAN

- | | | |
|---|-------|-------|
| 1. 5 Year/250,000 Mile Engine & Aftertreatment. | _____ | _____ |
| 2. 5 Year Service Agreement on Chassis.
See Attached | _____ | _____ |

CHASSIS SERVICE PLAN

Chassis Service Plan 4 Times per year for 5 years. 20 total PM Service.

Quarterly Services: Oil change
Oil filter
Fuel filters
Check all fluid levels
Grease chassis
10,000 miles or 3 months, whichever is first.

Twice a Year: Change hydraulic oil
Hydraulic filters replaced
Turntable bolts to be torqued and inspected twice a year
Check all great fitting and replace as needed
Grease throughout

Annual Services: Crankcase service
Crankcase filter
Valve adjustment
Air filter
DPF remove and reinstall
DPF cleaning
DPF gasket replacement
Update/reset ECM
Transmission to be serviced as per manufacturer's
recommendations for service.



PROCUREMENT DEPARTMENT

Potential bidders are responsible to check this site for any **ADDENDUMS** that are issued. It is the responsibility of the **BIDDER** to check for, download, and include with their **BID RESPONSE** any and all **ADDENDUMS** that are issued for a specific **BID** published by the City of Mobile. Failure to download and include **ADDENDUMS** in your **BID RESPONSE** may cause your bid to be rejected.

This is a sealed bid. Any responses faxed or e-mailed will be rejected.

This is a sealed bid. Any response must be submitted in a sealed envelope with the bid number and bid opening date on the outside of the envelope.

Any response that arrives improperly marked or with no bid number and opening date on the outside of the delivery or express package and opened in error will be rejected and not considered.

It is the responsibility of the bidder to insure that their bid response is delivered to and received in the Purchasing Department before the date and time of the bid opening.

Be sure to read the Terms and Conditions. All bids are F.O.B. Destination unless otherwise stated.

Be sure to sign your bid!

Package/Bid Delivery Address:
Purchasing Department
205 Government St. Room S408
Mobile, AL 36644

(Request First Delivery)