

**INVITATION TO BID
EMERGENCY BID**

**MINIMUM SPECIFICATIONS ON A HEAVY-DUTY TRASH/BRUSH LOADER,
BULK TRASH/JUNK BODY, MOUNTED ON A NEW CAB & CHASSIS
(KNUCKLEBOOM)**

**Bid Opening
April 23, 2020 – 10 am edt
1517 Tombras Avenue
East Ridge, TN 37412**

SCOPE: The intent of these specifications is to describe a heavy-duty trash/brush loader & bulk trash body mounted on a new cab & chassis for use in the City's refuse collection system.

GENERAL: All equipment furnished shall be new, unused and of the manufacturer's current production design. Bidder must accurately complete this specification sheet and include it as a portion of the bid response. Failure to submit form indicating any deviations from the specifications shall be grounds for rejection of bid. Any deviations or exception from the stipulated specifications shall be listed on a separate sheet labeled "Exceptions to Bid Conditions and Specifications" and attached to the bid.

TRUCK SPECIFICATIONS

New and Unused 2020 or newer conventional cab-chassis, 204" Useable CA,107" BBC, 96" Axle to Frame End, Cab & Wheels - White. 33,000# Minimum GVWR.

A. ENGINE:

1.	Diesel, In-line 6 cylinder, Total Electronic, Wet-Sleeved. SCR System. 330 minimum HP, 1,000 lb-ft Torque, minimum
2.	Single-stage, Dry-type Air Cleaner.
3.	Horton Drivemaster fan drive, direct drive type, two-speed with residual torque device for disengaged fan speed
4.	120 volt/1250 watt Engine block heater
5.	Heated Fuel/Water Separator
6.	Gauge, air cleaner restriction
7.	Engine Mounted Oil Cooler
8.	Aluminum radiator cross flow series system, 1228 in ² core with transmission oil cooler.
9.	Throttle hand control engine speed control for PTO mounted on steering wheel.
10.	Federal Emissions, EPA, OBD, & GHG certified for calendar year

B. TRANSMISSION:

1.	Allison 3000 RDS-P, 5-Speed Electronic Automatic, Push Button type controls.
2.	Synthetic oil only
3.	Transmission ICM located inside cab (NO EXCEPTIONS).

C. FRONT AXLE:

1.	12,000# Capacity Front Axle.
2.	12,000# Capacity Front Suspension.
3.	Shock Absorbers, Double-Acting, Telescopic.
4.	Power Steering

D. REAR AXLE:

1.	21,000# Single-speed Rear Axle with driver controlled locking differential.
2.	31,000# Multi-leaf Rear Suspension with 4,500# Auxiliary Rear Springs.
3.	Ratio 5.57.

E. FRAME:

1.	Heavy-duty Frame 120,000 PSI Yield; Outer "C" channel reinforcement.
2.	Frame Mounted Front Tow Hooks.
3.	Full-width Heavy-duty Front Bumper.
4.	Area above and below the frame, 60" behind the cab shall be clear of all obstructions.
5.	7 year frame warranty

F. BRAKES:

1.	Full Air Brakes, Cam-type with ABS and Automatic Slack Adjusters.
2.	Spring Set Parking Brake.
3.	Brake Dust Shields.
4.	Heated Air Dryer.
5.	13.2 CFM Air Compressor.
6.	System drain valve - automatic

G. FUEL TANK:

1.	LH mounted 50 Gallon. Polished Aluminum material. 7 gallon DEF tank.
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H. ELECTRICAL:

1.	12V Electrical System with Circuit Protectors.
2.	160 Amp Alternator.
3.	Two (2) H.D. Batteries, 1800 Total CCA, minimum.
4.	Battery Disconnect Feature.
5.	Backup Alarm.
6.	Test exterior lights for pre-trip inspection will cycle all exterior lamps except back-up light.
7.	Electrical system electronic control module with in cab fault codes.
8.	Wiring for Body Builders to rear of frame.
9.	LED for Flashing, Stop, Turn & Tail lights, and clearance marker lights
10.	Jump Start Stud - remote mounted
11.	Headlight warning buzzer sounds when head light switch is on and ignition switch is off.
12.	Parking brake alarm sounds when vehicle park brake is not set and ignition is off and any door is open
13.	Must be equipped with back-up camera.

I. WHEEL & TIRES:

1.	22.5 X 8.25 10Hole Hub piloted disc wheels. Wheel seals shall be oil lubricated.
2.	11R22.5-16PR Front Tires Michelin
3.	11R22.5-16PR Rear Tires Michelin

J. CAB EQUIPMENT:

1.	Tilting Hood & Fenders with chrome grille.
2.	All daily fluid checks shall be located on driver's side of engine.
3.	Tinted Glass All Around.
4.	West Coast Mirrors with Integral Convex, both sides heated heads with power and clearance lights. Hood Mounted convex mirrors
5.	Variable Speed Windshield Wipers & Washers.
6.	Air Horn
7.	Power windows and door locks
8.	Deluxe Air Suspension Driver's Seat & Air Suspension Passenger seat
9.	Instrumentation: <ul style="list-style-type: none"> a. Air Cleaner Restrictor Indicator b. Gauges & Warning Lights for Low Oil Pressure, High Engine Temperature and Low Coolant Level, & Low Air Pressure. c. Hour Meter in cab, Oil Pressure Gauge, Air Pressure Gauge, Coolant Temperature Gauge, Fuel Gauge, Electronic Speedometer, Electric Tachometer, Voltmeter, Transmission Temperature Oil Gauge
10.	Integral Air Conditioning with Heater and Defroster
11.	AM-FM Weather Band, Clock Stereo Radio
12.	Cab switches shall be back lighted for visibility
13.	10# ABC Fire Extinguisher, Mounted
14.	Safety Reflective Warning Triangle Kit, Cab-Mounted
15.	Cab entry assist handles shall be located on both sides of the truck cab, interior and exterior
16.	One (1) remote power module mounted inside cab behind driver's seat
17.	Four (4) amber lights mounted in grille with in-cab controls

K. PAINT:

1.	Truck shall be white in color
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L. WARRANTY:

1.	<p>Bidder shall state warranty below:</p> <p>_____</p> <p>_____</p> <p>_____</p>
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M. OPTIONS: Bidder shall list the costs of each extended warranty:

1.	Extended Warranty Coverage for Five (5) Years, 150,000 miles, and 10,000 hours (whichever comes first) for the Engine & Engine Electronics (includes electronic fuel injectors), Transmission and Driveline.	\$ _____
2.	Towing Warranty (maximum \$ 450 per incident) to nearest warranty repair facility.	\$ _____

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SPECIFICATIONS FOR A HEAVY-DUTY TRASH LOADER

It is the intent of these specifications 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. PEDESTAL:

1.	To be A-Frame design constructed of formed high strength steel channels ensuring a 3:1 safety ratio.
2.	Top and bottom of the pedestal to be constructed of 1/2" steel plate.
3.	Pedestal must be mounted directly to the frame rails.
4.	Access to the hydraulic hoses shall be effected through an easily removable steel cover.

B. BOOM PIVOT:

1.	Pivot to be mounted to the pedestal by a slewing ring/bearing having a minimum capacity of 513,000 pounds static load and 186,000 ft. lbs. moment.
2.	Slewing ring to be 3/4" thick and have an OD of 25 1/2".
3.	Boom pivot has a 9" OD safety retaining tube 12" long.
4.	Must have minimum of 270° swing with mechanical stops for safety
5.	Pivot shall utilize a direct hydraulic swing drive.

C. MAIN BOOM:

1.	To have two (2) heavy duty 4" x 8" x 1/2" thick wall tube or equal.
2.	Main boom to be of twin design.
3.	Main boom to have a manual stop for tip boom to prevent tip boom from bottoming out.
4.	Must have internal check valves.

D. TIP BOOM:

1.	To have heavy duty 5" x 7" x 1/2" thick wall tube or equal.
2.	To have a 4' telescopic extension tip section constructed of 4" X 6" X 1/2" thick wall tube or equal.
3.	Tip boom Extension must have replaceable nylon bearings on all three (3) sides with a roller on the bottom.
4.	Must have internal check valves.

E. BOOM LENGTH:

1.	Boom length shall be 16' with a telescoping section extending length to 20'.
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F. LIFTING CAPACITY

1.	At twenty (20') feet, loader must lift 3,300 pounds "payload" in addition to weight of grapple.
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G. LOADER STABILIZERS:

1.	Loader must be equipped with hydraulic operated stabilizers.
2.	Stabilizers to be positioned for maximum stability when lifting a 3,300 pound load at 20'.
3.	Stabilizers to be equipped with street pads (rubber lined).
4.	Stabilizer shall telescope horizontally in and out; vertically up and down, and operate independently by individual controls.
5.	To protect the hydraulics, cylinders must be mounted inside the telescoping legs.
6.	Stabilizers will have a maximum of 12' spread in the down position.
7.	Cylinders shall have internal holding valves for the up and down movement to prevent stabilizers leaking.

H. BUSHINGS AND PINS :

1.	All boom connections points must be equipped with replaceable bushings and heat treated pins.
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I. OIL TANK AND FILTER:

1.	Hydraulic system must be equipped with a 40 gallon oil tank, with sight, and temperature gauge, and a 50 gallon per minute oil filter, with replaceable 10 micron filter element, with an in-tank suction strainer.
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J. POWER SOURCE:

1.	Unit to be mounted with clutch type (Hot Shift) PTO with a overspend protection and a heavy-duty bi-rotational tandem hydraulic pump. PTO will not engage unless truck is in neutral and parking brake is set.
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K. VALVES AND CYLINDERS

1.	All valves and cylinders to be of high quality to assure long lasting service life and smooth operation.
2.	Main valve must be equipped with main relief valve.
3.	Main boom, tip boom and stabilizer cylinders shall have internal pilot operated check valves. Internal check valves protect the valves and the operator.

L. THROTTLE CONTROL:

1.	Unit to have a throttle control with an electric switch to maintain proper RPM under a load.
2.	Switch for throttle control to be mounted on operator's platform for operator's convenience. Unit will not throttle unless PTO is on, truck is in neutral and parking brake is set.

M. TRASH GRAPPLE:

1.	To have 360° continuous rotating bucket by means of a replaceable hydraulic swivel with no mechanical stops.
2.	To be replaceable, swivel must not be welded or be an integral part of the grapple.
3.	Trash grapple shall be opened and closed by two (2) hydraulic cylinders and have a minimum closing pressure of 3,000 pounds.
4.	Grapple is to be 4' long and open to 60 inches, lip to lip with bolt-on replaceable high strength, high carbon steel cutting edges.
5.	Bucket cylinders and hoses shall be enclosed in removable steel cover.
6.	Grapple shall have reverse curvature to prevent scalping.

N. OPERATOR'S PLATFORM:

1.	There will be a stand up type operator's platform on each side of the truck.
2.	Proper space between cab and pedestal shall be allowed for walk-through operation.
3.	Body dump controls to be a different type from the boom controls.

O. PAINT:

1.	Unit shall get one (1) coat of high-grade primer and two coats of high grade enamel.
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P. WARRANTY:

1.	Entire unit shall have a one (1) year parts and labor warranty, a two (2) year gear box warranty, and a three (3) year structural warranty.
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SPECIFICATIONS FOR HEAVY-DUTY BULK TRASH BODY

It is the intent of these specifications to describe a heavy-duty trash body to be used in collection and loading of bulk trash, limbs, brush, leaves, building materials, etc., or any other materials. Material, workmanship, design and capacities are being specified for a piece of equipment that will be required to do a certain job.

1.	Minimum 20 cubic yard capacity.
2.	Minimum 18-foot body length.
3.	Body to be mounted with 60" minimum between the body and the back of the cab.
4.	Body to be constructed with 8" @ 9.8 lbs. per ft. full length structural channel main sill and 4" @ 5.4 lbs. per ft. structural channel cross sills. Cross sills to be placed on 12" centers. Body floor to be built with 3/16" steel, floor to be formed over and under the end of cross sills. Body overall width not to exceed 8'.
5.	Body sides to be constructed with 10-gauge sheet metal. Wall stiffeners to be 11 gauge formed channel placed on 24" centers. Body sides to have 11 gauge formed channel at top of sides. Side stakes to be interconnected and welded to top rail. Front body wall to be 42" high and slope to 60" tall 8' from the body front. Side to be continuous welded to floor.
6.	Body headboard to be constructed of 10-gauge sheet metal with 11-gauge formed stakes and 11-gauge formed top rail.
7.	Body to have two (2) equal width barn-type rear doors which swing completely around to each wall and latch open for dumping. Each door must have two (2) 1" pins welded to the doors and have easily accessible grease fittings. Door latch shall secure both doors at the top and the bottom. Rear door must be fabricated from 10 gauge steel with 4" structural steel framing.
8.	Body hoist to be two (2) two-stage telescoping hydraulic cylinders with a 5" ID bore. Hoist shall provide a 45° dumping angle and a minimum lifting capacity of 40,000 pounds.
9.	Body has a tool box for forks and hand tools consisting of 16" X 20" and 96" across the inside of the body. Tool box must have door on each side with locks made into handle.
10.	Lighting - Body shall be equipped with lights to meet all state and federal safety standards. All wiring shall be protected with metal tubing. All lighting shall be LED and mounted in rubber cushions. All signal, brake, etc. lighting on the truck chassis shall be LED. Also, body shall be equipped with four (4) recessed corner lights, three (3) recessed ID lights, and all lights and reflectors to comply with FMVSS-108. The rear body shall be equipped with two (2) LED (6" oval) flashing lights connected to the turn signals, mounted in the rear post and operated from the cab. Must have front and rear strobe lights. Front strobe lights must be located in grill. Rear strobe lights must be mounted in the rear post of body.

11.	Unit shall be properly cleaned and get one (1) coat of high-grade primer and two (2) coats of high grade enamel. Color shall be Black.
12.	Body shall rear safety bumper with conspicuity tape applied. Body side rub rails shall have conspicuity tape applied. Body shall have body safety props installed on each side of the body.
13.	Body and hoist shall be warranted for one (1) year parts and labor.
14.	Must have rear back-up camera.

FAILURE TO EXAMINE SPECIFICATIONS AND INSTRUCTIONS WILL BE AT BIDDER'S RISK. IF BIDDER IS IN DOUBT AS TO THE TRUE MEANING OF ANY PART OF THE SPECIFICATIONS AND INSTRUCTIONS OR OTHER DOCUMENTS, PLEASE SUBMIT A WRITTEN REQUEST FOR AN INTERPRETATION TO ROBERT PARKER, SANITATION SUPERVISOR, rparker@eastridgetn.gov. AN INTERPRETATION OF THE DOCUMENT WILL BE MADE ONLY BY ADDENDUM ISSUED BY THE SANITATION SUPERVISOR TO EACH FIRM TO WHOM AN INVITATION WAS FORWARDED. THE CITY WILL NOT BE RESPONSIBLE FOR EXPLANATIONS OR INTERPRETATIONS OF BID DOCUMENTS EXCEPT AS ISSUED IN ACCORDANCE HEREWITH.

ALL BIDDERS MUST COMPLETE THE ATTACHED "IRAN DIVESTMENT ACT CERTIFICATION" FORM TO BE SUBMITTED WITH BID.

ALL BIDS MUST BE SEALED AND PROPERLY MARKED ON THE OUTSIDE OF ENVELOPE "KNUCKLEBOOM TRUCK BID." ENVELOPES NOT PROPERLY MARKED WILL NOT BE ACCEPTED.

LATE BIDS WILL NOT BE CONSIDERED UNDER ANY CIRCUMSTANCES

THE CITY OF EAST RIDGE COMPLIES WITH TITLE VI OF THE CIVIL RIGHTS ACT OF 1964 WHICH STATES "NO PERSON IN THE UNITED STATES SHALL, ON THE GROUND OF RACE, COLOR, OR NATIONAL ORIGIN, BE EXCLUDED FROM PARTICIPATION IN, BE DENIED THE BENEFITS OF, OR BE SUBJECTED TO DISCRIMINATION UNDER ANY PROGRAM OR ACTIVITY RECEIVING FEDERAL FINANCIAL ASSISTANCE."

THE CITY OF EAST RIDGE RESERVES THE RIGHT TO REJECT ANY OR ALL BIDS, TO WAIVE TECHNICALITIES THEREIN AND TO AWARD THE BID IN THE CITY'S BEST INTEREST.

BID PRICING SHEET

**HEAVY DUTY TRASH/BRUSH LOADER, BULK TRASH/JUNK BODY,
MOUNTED ON A NEW CAB & CHASSIS
(KNUCKLEBOOM)**

**Bid Opening
Emergency Bid
April 23, 2020 – 10 am edt
1517 Tombras Avenue
East Ridge, TN 37412**

COMPANY _____

DATE _____

PHONE: _____

FAX: _____

EMAIL: _____

BY _____ (Print) _____ (Signature)

BID AMOUNT: \$ _____

MAKE AND MODEL OFFERED: _____

STATE FIRM DELIVERY DATE: _____

**NOTICE: A LIQUIDATED DAMAGES PENALTY OF \$250.00 PER DAY MAY BE
ASSESSED TO THE VENDOR FOR EACH DAY BEYOND THE STATED DELIVERY
DATE.**

IRAN DIVESTMENT ACT CERTIFICATION
EFFECTIVE DATE JULY 1, 2016

Chapter No. 817 (HB0261/SB0377). “Iran Divestment Act” enacted. Amends Tennessee Code Annotated, Title 12 by adding Chapter 12, which is to be known as the “Iran Divestment Act.” The Act requires the chief procurement officer for the State, no more than 120 days after the effective date of this Act, to publish on the State’s website, using credible information freely available to the public, a list of persons determined to be engaged in investment activities with Iran. It prohibits a person identified on the list from contracting with a local government and makes any contract entered into void. It provides that after the effective date of this Act, **every bid or proposal made to a local government for goods or services, when competitive bidding is required, must contain the certification stated below**, subscribed and affirmed by the bidder as true under the penalty of perjury. The Act allows the certification to be submitted electronically. It prohibits a bid from being considered or an award being made if the bidder does not provide the certification below to the local government, except under limited enumerated circumstances.

I certify, under penalty of perjury, that the following statement is true:

“By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to § 12-12-106.”

Company Name: _____

Signature: _____

Print Name: _____

Signature: _____

Print Name: _____

Signature: _____

Print Name: _____

STATE OF _____	
COUNTY OF _____	
On this _____ day of _____, 20____, before me personally appeared, to me known to be the person (or persons) described in and who executed the foregoing instrument, and acknowledged that such person (or persons) executed the same as such person (or person's) free act and deed.	
Notary Public _____	
Print Name _____	
My Commission Expires:	(seal)