

This bid must be returned, signed, and completely filled out. Failure to do so could eliminate your company from the competition. Bid validity 60 days from bid opening date.

Company: _____

Company Address: _____

City, State, Zip: _____

Telephone Number/Fax Number: _____

Date: _____

4WD Backhoe

Bid Price: _____

Buy-Back Price: _____

Authorized Signature: _____

Printed or Typed Signature: _____

Official Title: _____

Request for Bid

The City of Tifton is seeking bids on **One (1) new 4WD Backhoe**. The equipment shall be new, unused and of the latest design. The equipment shall be priced F.O.B. to 1000 Armour Road, Tifton, Georgia. The City of Tifton requests that a current Certificate of Insurance, stating the City of Tifton as the insured, be attached to bid. The City of Tifton required the vendor to facilitate warranty work on items consistent with manufacturer's recommendations. Payment shall be the standard thirty (30) days net.

Vendor: _____

Make, Model: _____

CONFIGURATION

Y___ N___ Machine should have a minimum weight of 18000 lbs
Y___ N___ 2019 Model

ENGINE

Y___ N___ Engine net peak power @ 1800 rpm shall be at least 105 HP (78kW) according to SAE J1349.
Y___ N___ Engine shall have an economy mode to help maximize fuel efficiency, while maintaining backhoe performance
Y___ N___ Engine shall have a fuel filtration rating of no more than 10-micron for the primary fuel filter / water separator.
Y___ N___ Engine shall have a secondary fuel filter with a rating of no more than 4-microns.
Y___ N___ Engine shall be equipped with electric fuel priming pump as standard equipment.
Y___ N___ Engine shall have a water/sediment bowl with water separator service indicator light.
Y___ N___ The engine shall have an internally mounted, dry-type, perimeter seal air cleaner with an integral precleaner, automatic dust ejection system, and filter condition indicator.
Y___ N___ Engine cooling fan shall have a heavy-duty guard that fully prevents human contact while in operation.
Y___ N___ Radiator shall have a heavy-duty guard to resist continued impact at low speeds.
Y___ N___ Machine shall be equipped with a standard battery disconnect switch
Y___ N___ Engine shall be equipped with a single, automatically tensioned, serpentine accessory belt.

Y___ N___

Engine air filter shall have a pre-cleaner and a dust ejector.

Y___ N___

Engine shall have variable-speed, hand and foot governor controls.

Y___ N___

Engine shall have a full flow spin-on type oil filter that is vertically mounted below the crankshaft centerline.

Y___ N___

Machine shall have Automatic Engine Speed Control that reduces engine speed when the backhoe is not in use. This will conserve fuel and lower emission noise

POWERTRAIN/TRANSMISSION

Y___ N___

4WD Powershift Transmission

Y___ N___

Transmission, differentials, and hydraulics shall have separate fluid reservoirs.

Y___ N___

4WD shall be pendulum mounted, grease-free with sealed for life kingpins, able to be engaged "on-the-go" while under load or any operating condition.

Y___ N___

4WD shall be engaged at anytime by activating switch on front console. An operator shall be able to activate the switch while the machine is moving or stopped, also with or without a load

Y___ N___

4WD guard shall provide full coverage between the frame rails to protect the front drive shaft.

Y___ N___

Unit shall be able to change direction and travel speed on-the-go.

Y___ N___

Forward/reverse shuttle shall be a contactless unit for reliability.

Y___ N___

Units shall be equipped with a transmission disconnect button on the gear shifter and loader control to allow full engine power to the loader.

Y___ N___

Transmission shall have spin-on type oil filter vertically mounted.

Y___ N___

Differential lock shall be located on the loader joystick control

BRAKES

Y___ N___

Brake mode selector switch shall have a 3 position switch allowing 2WD, 2WD travel with 4WD braking and full time four wheel drive.

Y___ N___

Parking/secondary brakes shall be independent of the service brake system, allow operator complete control for a modulated stop, and shall be mechanically applied and adjusted from the cab without the need for tools.

Y___ N___

Service brakes shall be hydraulically boosted for low pedal efforts.

Y___ N___

Service brakes shall be completely enclosed and sealed using Kevlar as brake pad media.

Y___ N___

Brakes shall be outboard oil-immersed, hydraulically actuated, multiple discs on final drive input drive shaft.

Y___ N___

Service brakes shall be fully self-adjusting.

HYDRAULIC SYSTEM

Y___ N___

Hydraulic system shall include high-pressure hoses consisting of 4 layers of overlapping insulated spiral wire matrix.

Y___ N___

Machine shall be able to reach maximum lift capacity at any engine speed.

Y___ N___

Maximum hydraulic pump pressure shall be at least 3,600 psi (25, 000 kPa) for the backhoe and at least 3,600 psi (25, 000 kPa) for the loader

Y___ N___

Hydraulic system shall have a replaceable 6-micron vertically mounted, bowl and cartridge filter that is accessible from under the main frame.

Y___ N___

Hydraulic pump shall be rated at 43 gpm (163 lpm)

Y___ N___

Machine shall have an electronically controlled variable displacement load sensing, axial piston pump for low idle lifting and maximum durability.

Y___ N___

Closed-center implement valves shall be standard

Y___ N___

Unit shall contain flow sharing valves to allow for machine multifunction

Y___ N___

Supply hose to the pump shall be protected high within the chassis and not vulnerable to puncture.

Y___ N___

Backhoe hydraulic lines shall be fastened and constrained from hanging low within the chassis, preventing hoses from damage.

Y___ N___

All hydraulic hoses restrained by rubber grommets and steel band clamps shall have full protective coverage by the rubber grommet, preventing cuts and chaffing by the band clamps.

WHEELS/TIRES

Y___ N___

4WD Tires shall be no less than 12.5/80-18 12PR (front) and 19.5 – 24 12PR (rear) with radial tires.

OPERATORS STATION

Y___ N___

Operator shall have complete control to disable, or lock, the backhoe Pilot Controls with a single switch on the console.

Y___ N___

The backhoe Pilot Controls locking switch shall always indicate the correct state of the controls, "locked" or "unlocked," and be lighted when "locked".

Y___ N___

Pilot Controls for the backhoe shall be adjustable fore/aft, side to side and actuated by a foot control

Y___ N___

Machine shall come standard with horn, audible back up alarm and electric fuel system shut off.

Y___ N___

Side instruments shall include a premium gauge cluster consisting of LCD Information screen and LCD warnings. LDC warns shall include; Engine Oil Pressure, Machine Locked, Service Due, Air Filter Blocked, High Coolant Temperature, Auto Idle Shutdown, High Torque Converter Temperature and Hydraulic Filter Bypass

Y___ N___

Unit shall have a lighted instrument panel located on the right side of the cab so that it is visible from both loader and backhoe operating positions. Indicator lights to include, Water in Fuel, Remote dial throttle active, engine warning, warning lamp, emissions module malfunction, AESC active, Regen Inhibited, Low battery/charging system warning, high hydraulic oil temperature, Wait to start and Eco Mode Active

Y___ N___

Unit shall include four front and four rear working lights.

Y___ N___

Machine shall have stop and turn signals with flashing hazard lamps visible from front and rear.

Y___ N___

Cab shall come equipped with an Air Suspension seat that can be adjusted in the fore/aft position and has a lever that controls the release for rotation at 180 degree swivel from anywhere on a sliding track mechanism.

Y___ N___

Cab shall have an air conditioner that provides the operator with a choice of fresh outside air drawn through filters or recirculating cab air with HVAC recirculation selector

Y___ N___

Cab shall be equipped with two doors and 6 opening windows and floor mat.

Y___ N___

Cab shall include factory-installed heater/defroster with multiple speed blower with the control in reach from the front and rear of the machine.

Y___ N___

Front and rear windshield wipers/washers shall be standard.

Y___ N___

Enclosed cab shall have a front window visor that extends entire width of window

BACKHOE

Y___ N___

Must be equipped with a 24" Bucket

Y___ N___

Extendible stick shall be self-lubricating, adjusted with shims, and require no grease.

Y___ N___

Backhoe controls shall be available as pilot operated joystick controls with a standard pattern changer for SAE excavator or ISO backhoe control patterns.

Y___ N___

Extendible stick shall be field adjusted in less than 30 minutes to eliminate excessive clearance, using simple hand tools

Y___ N___

Backhoe shall be controlled with adjustable excavator style pilot operated joystick controls.

Y___ N___

Auxiliary controls shall be controlled by a electro-hydraulic thumb roller

Y___ N___

Stabilizers shall be pilot operated for low efforts and located on the side console for easy access whether facing front or rear.

Y___ N___

Stabilizer guards shall be available to protect stabilizer cylinders from damage

LOADER (SELECT BUCKET)

Y___ N___

1.31 CYD (1.00 m3) **Multi Purpose bucket** (4 in 1). Machine shall meet the following specifications

- Minimum breakout force of 11,020 lbs (49 kN)
- Minimum dump clearance of 9'2" (2798 mm) at full lift and 44 degree discharge
- Minimum dig depth of 4" (110 mm)
- Minimum hinge pin height 11'5" (3474 mm)
- Minimum lift capacity 6,828 lbs (3097 kg)
- Minimum rackback angle at Ground Level of 38 degrees

Y___ N___

Loader shall be equipped with a return-to-dig mechanism.

Y___ N___

Loader shall be equipped with a lift cylinder brace to mechanically hold the loader arms in the raised position.

Y___ N___

Multi-Purpose bucket shall be operated by a thumb control on the loader joystick

Y___ N___

Loader shall incorporate a steel bumper system to protect battery and engine components.

Y___ N___

Loader linkage shall incorporate a single, full width main tower pin for maximum strength and load distribution.

Y___ N___

Loader bucket shall have a 2-piece or 3-piece bolt-on cutting edge for serviceability.

Y___ N___

Loader bucket shall be self-leveling for truck loading spoil and equipped with a bucket tilt indicator.

SERVICEABILITY

Y___ N___

Hood release to be lockable and easily accessible from inside the cab.

Y___ N___

Engine oil, transmission oil, hydraulic oil, brake fluid, washer fluid, coolant, engine air filter, and engine air filter monitor shall all be consolidated service points, accessible under the hood with loader arms down.

Y___ N___

Entire machine cooling package, including radiator, transmission oil cooler, hydraulic oil cooler, fuel cooler and ATAAC shall be easily accessible without use of tools.

- Y___ N___ Water and sediment shall be drained from the fuel / water filter from a standing position without tools.
- Y___ N___ The battery(ies) shall be accessible without the use of hand tools to remove panels, toolboxes, etc.
- Y___ N___ The swing frame shall have replaceable bushings installed in the pin joints for the boom, swing cylinder rod ends and swing post.
- Y___ N___ Machine shall have easily accessible jumper posts to aid in jump-starting machine or other machines.
- Y___ N___ The rear axle shall have brake wear check ports, allowing access to inspect brake pad wear.
- Y___ N___ Machine fault codes shall be accessible from LCD screen
- Y___ N___ The unit shall be provided with a master electrical disconnect switch.

OWNING AND OPERATING COSTS

- Y___ N___ Driveshaft universal joints shall be maintenance free.
- Y___ N___ Hydraulic oil must have service interval up to 6000hrs.
- Y___ N___ Load Sensing Variable Displacement pump shall be standard for optimized fuel efficiency and performance.
- Y___ N___ Front and Rear Axle Oil change shall have a 1000- hour change interval for lowering operating maintenance cost
- Y___ N___ Cooling System shall have a 12,000-hour change interval for lowering operating maintenance cost
- Y___ N___ Engine shall have a 500-hour oil change interval for lowering operating maintenance cost.

ADDITIONAL INFORMATION:

- 1 Please provide buy-back program summary and attach documentation (including warranty information):

- 2 Delivery must be no more than 60 days after Notice of Award. There will be a fine in the amount of \$50.00 per calendar day if the vendor fails to meet the delivery date. This fine shall be imposed until day of delivery of equipment.

- 3 The City of Tifton, Georgia reserves the right to reject any or all bids, to waive informalities, and to re-advertise.

Signature: _____

Title: _____