



INVITATION FOR BIDS

NOTICE TO BIDDERS

The City of Alamosa Department of Public Works, 300 Hunt Avenue, Alamosa, CO will be accepting bids until 1:30 p.m., February 18, 2021, for a 2021 Wheel Loader. Specifications may be obtained at Alamosa Public Works Department, 300 Hunt Avenue, or on the City Web site at www.cityofalamosa.org

Envelopes containing bid proposals shall be addressed as follows:

Harry Reynolds
Public Works Director, City of Alamosa
P O Box 419
Alamosa, CO 81101

Bids may be hand-delivered or mailed to the Finance Department. Bids must be placed in one envelope, securely sealed and clearly labeled 2021 Wheel Loader. The City of Alamosa will not be responsible for premature opening of bids not properly labeled.

On the outside of the bid, there shall be disclosed: 1) the name of the bidder; and 2) bidder's address. Only bids received on or before the aforesaid date and hour set for closing of this Invitation For Bid (IFB) will be eligible for consideration. Any bid received after the closing time, regardless of the method of delivery, will be returned unopened to the Bidder. Bids may not be withdrawn after closing time.

All bids will be evaluated and selections made as soon as possible after bid opening. Award of bid is subject to approval by the Alamosa City Council.

The City of Alamosa reserves the right to reject any and all bids, to waive formalities and informalities, and to award orders for the items described either in whole or in part, if it seems to be in the best interest of the City to do so. The bids will be considered as a combined value. The total cost minus the trade in will be your final bid.

Questions concerning this IFB should be directed to: Tim Hillis at (719) 589-5485 or at thillis@ci.alamosa.co.us

Please specify capacity/spec when substituting. These specs are based on a 2021 John Deere 544L Wheel Loader. Other makes and models which meet these minimum specifications will be considered. The City does reserve the right to require a demonstration at our shops for a machine which we have not had a demo in the past two years.

Minimum Specifications	Complies Y/N	Comment
Engine		
Six Cylinder, turbocharged, charge air cooled diesel engine and shall be designed and built by the manufacturer		
Engine shall be certified to EPA Final Tier 4/EU Stage IV		
Engine shall have a wet-sleeve cylinder liner design for improved cylinder cooling over dry sleeve and cast-in-bore design for improved cylinder and piston ring durability		
Engine displacement shall be no less than 6.8 liters (414 cu. in.)		
Engine net peak power shall be no less than 166 hp (123 kW) @1,700 rpm		
Engine shall develop at least a 47% torque rise and should have at least 546 lb ft @ 1,100 rpm net peak torque.		
Fuel system shall be high-pressure, common rail		
Daily check points shall be accessible from one side of the engine and shall be done from ground level		
Under-hood engine air cleaner shall be dry type, dual element with a restriction sensor and in-cab restriction warning light		
The loader will have under hood pre-screened air intake to minimize plugging		
Access to engine will be open from both sides with side opening, full access service doors		
Engine shall have no less than 30-micron rated primary dual stage fuel filter with water separator		
Loader shall be equipped with a heavy-duty steel fuel tank guard		
Service interval for the engine oil and filter shall be 500 hours		
The unit should have an auto-idle, auto-shutdown feature for the engine as standard equipment.		
The electrical system shall be 24 volt with 100 amp alternator		
Cooling		
Unit shall have a proportionally controlled, hydraulically driven, 90 degree-swing-out fan, standard equipment		

The unit will have two-side access to all coolers		
Air intake shall be pre-screened (3 mm perforations) for each cooling component		
Cooling system shall be isolated from the engine compartment		
Unit shall have a coolant recovery tank provided		
Unit shall have a fan-guard		
Fluid levels should be easily checked by sight gauges or overflow tank		
Powertrain		
Unit shall have a lockup torque-converter, power shift transmission - 5 forward, 3 reverse gears to provide improved fuel economy in load and carry or roading applications.		
The transmission shall be electronically controlled, adaptive, with load and speed dependent shift modulation		
Shift modes shall be manual, auto to 1st or 2nd, kick down or kick up/down.		
Service interval for the transmission oil filter shall be 2000 hours		
The transmission clutch calibration shall be performed from the cab monitor.		
Unit shall have steering column or joystick mounted F-N,R and gear-select lever, kick-down button on hydraulic lever. Will also have quick shift feature that allows pushbutton gear changes, one gear at a time		
Sight gauge showing transmission fluid shall be at ground-level		
Transmission filter restriction shall be displayed in the cab		
The transmission shall be able to reach 24.8 mph in 5th gear and 11.5 in third gear with 20.5R25 tires		
Axles / Brakes		
The final drives shall be heavy-duty inboard planetary		
The loader shall have two brake pedals with an activation switch to allow the left brake pedal to switch between a brake neutralizer or brake only function.		
The service brake shall be hydraulically actuated, inboard sun shaft mounted, pressure oil cooled, self-adjusting, single disc and sealed from water, mud and dust contamination.		
The parking brake shall be automatic, spring applied, hydraulically released, oil cooled, multi-disc and sealed from water, mud and dust contamination		

Rear axle shall not have less than 24 degree total oscillation, stop to stop, when equipped with 20.5R25 tires		
The dipstick port and housing fill shall be at the top of the axle		
The front axle shall be hydraulically actuated, disc clutch style, locking differential for maximum traction when required but with less tire wear than limited slip or no-spin differentials		
The loader shall have front and rear axles with hydraulic locking differentials		
The loader shall have manual differential lock		
Hydraulic System		
Hydraulic filter shall be in the hydraulic tank with service interval of 4000 hours		
The hydraulic fluid shall have a rated life of 4000 hours		
The hydraulic system shall be pressure-compensating load-sensing for reduced fuel consumption and better fluid heating compared to open center hydraulic systems		
Hydraulic tank capacity should be no less than 21.7 gallons for extended hydraulic fluid intervals and cooler system temperature		
Unit will be provided with an automatic return to dig to level attachment		
In cab adjustable automatic boom height kick out control		
Unit will be provided with in-cab adjustable automatic boom return-to-carry control		
Unit shall be equipped with either single-lever joystick or single axis fingertip electro hydraulic controls		
A sight gauge will be provided for checking hydraulic reservoir fluid		
Unit will have two programmable multi function buttons		
Hydraulic pump shall be variable-displacement, axial-piston pump: closed-center, pressure-compensating system		
All auxiliary flow functions will have the ability to be adjustable and continuous		
Unit will have ability to save hydraulic settings for up to ten attachments		
Bucket shake feature for fine metering of loose material		
Precision mode for operations requiring slow and precise control of hydraulics		
Loader steering articulation angle shall be no less than 80 degrees, 40 degrees in each direction		

Electrical		
Two batteries shall be included, 24 volt, 950 CCA, with a rated reserve of no less than 25 amps for 190-min at 80F.		
The unit shall have a solid-state electrical power distribution system using circuit board technology and solid-state switches		
The unit shall have a keyless starting system with configurable security settings		
Units electrical system will be protected by a 150 amp circuit breaker		
The unit shall be provided with a lockable master electrical disconnect switch		
Cab will be pre-wired for a rotating beacon/strobe light		
The in-cab switch module shall be sealed to keep out dirt, dust and airborne debris		
Unit shall be equipped with 4 front and 2 rear driving lights with guards, turn signals and flashers, stop and tail lights. The tail lights shall be LED type mounted high up in the rear grill for protection from damage and better sight visibility and shall have a normal service life equal to the machine.		
Unit shall come standard with three 12V power ports		
Unit shall be equipped with an analog display for :engine coolant temperature, transmission oil temperature, hydraulic oil temperature, and engine oil pressure.		
Unit shall have digital readout for engine RPM, odometer, transmission gear direction, indicator, speedometer, hour meter, fuel level, average fuel consumption and DEF level and outside temperature		
Unit shall have operator warning lights for: check engine, engine oil pressure, engine air restriction, battery voltage, transmission filter restriction, brake pressure, hydraulic oil filter, transmission fault, hydraulic oil temperature		
Operator Station		
Unit shall be equipped with a cab with ROPS/FOPS protection, and be multiplane isolation mounted for noise/vibration reduction and air conditioning, heater, defroster and		

pressurizer, front and rear intermittent windshield wipers and washers. Inside and outside rear view mirrors. Sun visor.		
3" retractable seat belt shall be provided		
Steering wheel shall be tiltable		
3-point contact at all times at the front and rear of the loader and around the roof-line The cab shall have continuous and unobstructed glass from roofline to floor for visibility in tight quarters.		
Standard AM/FM with remote auxiliary port		
A seat backrest extension will be standard Standard fabric, air suspension, with full dampening capability		
Cab shall have 2 cup holders, personal cooler holder/storage compartment for operator's manual, rubber floor mat		
General Specifications		
Unit shall be equipped with 20.5R25 tires		
Front tires shall be covered with fenders		
Easily accessible remote start battery terminals		
The counterweight shall be built-in		
Unit will be provided with a hitch with locking pin		
Unit shall have an articulation locking bar		
Unit shall have vandal protection with lockable engine enclosures, right counterweight storage, battery box, filler access for radiator/fuel/DEF/hydraulic/transmission		
The unit shall be provided with a loader boom service locking bar		
Loader shall have reinforced articulation joints with double tapered roller bearings		
Fuel tank capacity shall be no less than 79 gallons (242 L)		
Operating weight with standard equipment, Coupler Bucket with Bolt On Cutting Edge, 3 cu yd (2.3 m ³), 20.5R25 tires, ROPS cab, 175 lb operator and full fuel tank shall be no less than 31,433 lb (12 449 kg)		
Bucket breakout force shall be no less than 27,131 lbs with manufacturers standard z-bar with quick coupler 3 cu yd bucket and standard configuration		
Ground clearance under the loader shall be no less than 15.7" (0.4m)		
Loader with attachment coupler and bucket shall have height to hinge pin no less than 12'9" (3.77 m)		

Machine Full turn 40 degree tipping load with standard Z-bar linkage and wide general purpose bucket with bolt on edge 3 cu yd (2.3m) with tire deflection shall be at least 19,6521b (8 914 kg).		
Dump clearance at 45 degrees at full height shall be no less than 9ft 1 in (2.77 m) with wide 3 cu yd general purpose bolt on edge bucket		
Reach at 45 degree dump, 7ft clearance shall be no less than 5ft 1 in (1.44 m)		
Frames and Structures		
Machine front frame shall be of a 4-plate design of four vertical plates extending from boom pivot pins reaching to the front axle to distribute boom loads on the axle. The design is superior to the two-plate frames		
Loader bucket bell crank linkage shall be fabricated of high strength steel for increased durability and strength over castings.		
Machine shall be equipped with an exterior mounted, ground level storage compartment		
Optional Configuration		
Optional automatic reversing fan drive with monitor adjustable 20- 40 minute time increments		
Optional Ride control, automatic with monitor adjustable speed settings		
Optional High-lift loader linkage for additional 11" height to hinge pin, fully raised		
Optional electrical corrosion-prevention protection for protection in corrosive environments such as salt handling		
Optional centrifugal engine air intake pre-cleaner for heavy airborne debris or dust		
Optional heated mirrors for cold weather environments		
Optional environmental drains and oil sampling for the engine oil, transmission oil, hydraulic oil, and engine coolant.		
Hydraulic quick coupler attachment with 3 rd function hydraulics		
Engine Block heater		
License plate bracket with light		
Folding Single beacon bracket		
24 volt to 12 volt converter		
Bottom guards		
Controls		
3 function Joystick with F-N-R switch and 3 rd function Auxiliary control lever. 1 lever controls both boom and bucket and 2 nd lever		

controls auxiliary functions. Includes auxiliary hydraulic lines to boom cross tube.		
Warranty and Manuals		
Parts list and manuals: Two sets of Operator and one set of Parts/Service Manuals shall be furnished with this purchase. USB format is preferred.		
Service Facilities: Vendor shall maintain a service facility within 250 miles of Alamosa, CO capable of performing most repairs associated with the equipment proposed.		
<p>Manufacturer's Warranty: The successful bidder is required to furnish a warranty by the manufacturer that the equipment bid is suitable for the service intended in accordance with the specifications. The vendor shall furnish the City of Alamosa the same warranty as other fleet customers and shall agree to replace and install without charge within the warranty period any parts found to be defective. All warranty work shall be picked up (or performed on site) by the vendor within 72 hours of notification by the City of Alamosa and must be completed within 72 hours. Excluding the body, frame and/or engine. (Total of six working days for pick-up, repair, and return of equipment). If a problem occurs with the body, frame, and/or engine, vendor is to make every effort possible to have the equipment repaired and returned within a reasonable time frame or to provide a loaner until such time as the equipment can be repaired and returned.</p>		
Coupling to existing attachments		
<p>Vendors must modify our existing attachments to fit their coupler, we have one (1) snow blower and one (1) set of grapples. Vendors must provide a plate and two hanging brackets (candy canes) for each attachment. We will need a total of two mounting plates and 4 hanging brackets (candy canes).</p>		

Vehicle Base Package Price fob Alamosa \$ _____
 Minus trade in value \$ _____
Total Vehicle amount \$ _____

Add Options

60 inch coupler Fork Frame with 60 inch Tines	\$
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Trade Options:

2015 Volvo L60H Wheel Loader With 60 inch Forks, 2.62 yard bucket, and Aux hydraulics. Current Hours: 2920 *The City of Alamosa will continue to use the trade –in Volvo loader until the new unit has arrived on site.	-\$
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Sign: _____ Name of Firm: _____

Date: _____ Address: _____

Phone number: _____

Email address: _____